

CANADIAN INDUSTRY IN 1871

Ontario County Series #9

HALTON COUNTY INDUSTRIES, 1871 INDEX TO MANUSCRIPT CENSUS

G.T. Bloomfield & Elizabeth Bloomfield

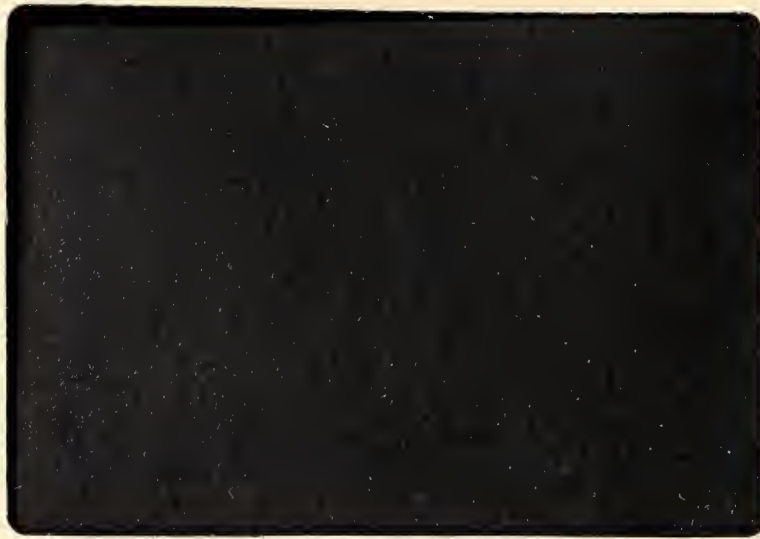
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1991



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O6B5719x
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The view of Whitevale, Township of Pickering, was chosen to illustrate Canadian industry in 1871. At this time, a high proportion of manufacturing activity was still located in small settlements, some of which were growing rapidly into towns. **Lovell's Directory** (1871) described Whitevale as:

A thriving village...[with] extensive flouring and woollen mills... Montreal Telegraph Co has an office here. Distant from Whitby, the county town, and a station of the Grand Trunk Railway, 13 miles. Mail daily. Population about 250.

Truman P. White has acquired the water rights at Majorville on Duffin's Creek in 1845 and developed a grist mill, a saw mill and, later, a woollen mill. By 1871 the census enumerated six significant industrial establishments employing 66 workers and with a total value of production amounting to \$125,000. The transition from waterwheels (70 horsepower) to steam engines (66 horsepower) was already apparent in the village by this date. In common with its counterparts across the country, Whitevale's basic industrial activities were closely associated with the local agricultural area. There was also considerable economic integration apparent in the ownership of several establishments by Truman P. White and in the making of staves in the sawmill for the cooper shop which in turn supplied the flour mill with basic containers for transporting the flour to market.

Unlike many of its contemporaries, Whitevale has remained about the same size ever since 1871. The 1971 census recorded a population of only 273 in the unincorporated settlement. Whitevale never achieved connection by railway, county road or provincial highway. Much of the surrounding land was acquired for the planned Pickering airport and new town in 1972/3 and today the settlement is threatened by the creation of a municipal solid waste dump for Metropolitan Toronto and the Durham Region.

The illustration was first published in the **Illustrated Historical Atlas of the County of Ontario** (Toronto: J.H. Bees and Co., 1877), reprinted Ross Cumming, 1972).

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CANADIAN INDUSTRY IN 1871 (CANIND71) PROJECT

Ontario County Series #9

**HALTON COUNTY INDUSTRIES, 1871
INDEX TO MANUSCRIPT CENSUS**

G.T. Bloomfield & Elizabeth Bloomfield

G.T. Bloomfield, series editor

1991

Department of Geography

University of Guelph

1991

Copies may be ordered from:

CANADIAN INDUSTRY IN 1871 PROJECT

Department of Geography

University of Guelph

GUELPH, ONTARIO

N1G 2W1

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Canadian Cataloguing in Publication Data

Bloomfield, G.T. (Gerald T.)

Ontario county series : index to manuscript census

(Canadian industry in 1871)

Partial contents: v. 9. Halton County industries,
1871.


ISBN 0-88955-256-8 (v. 9)

1. Ontario - Industries - History - 19th century -
Indexes. 2. Ontario - Economic conditions -
1867-1918 - Indexes.* 3. Ontario - Census, 1871 -
Indexes. 4. Canada - Census, 1871 - Indexes.
5. Ontario - Industries - History - 19th century.
6. Ontario - Economic conditions - 1867-1918.*
7. Ontario - Census, 1871. 8. Canada - Census,
1871. I. Bloomfield, Elizabeth. II. University
of Guelph. Dept. of Geography. III. Title.
IV. Series.

HC117.05B5 1991 338.09713'09'034 C91-094495-4

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CANADIAN INDUSTRY IN 1871: ONTARIO COUNTY SERIES

The first Census of Canada was taken at a time when the "hum of industry" was believed to be an essential sign of a community's progress, usually associated with the benefits of railway connections. Many people at this time seem to have shared Thomas Keefer's vision of "the civilizing tendency of the locomotive":

A town has been built and peopled by the operatives -- land rises rapidly in value -- the neglected swamp is cleared and the timber is converted into all sorts of wooden "notions" -- tons of vegetables, grains or grasses are grown where none grew before -- the patient click of the loom, the busy hum of the spindle, the thundering of the trip-hammer and the roaring of steam, are mingled in one continuous sound of active industry.¹

The CANIND71 database created from the manuscript census schedules of industrial establishments is used in this series to provide snapshots of industrial activity in Ontario just after Confederation, at a time of transition in technology, business organization and work discipline. The 36 Ontario counties varied in the amount and intensity of "active industry", depending on how long they had been settled, how much of their population lived in cities and towns, and how well connected they were by rail or water transport.

One title in the CANIND71 series of research reports has already examined the mix of industrial activity in Wellington County, Ontario, as a model for what might be done for any other place of similar size and population in Ontario, Quebec, New Brunswick or Nova Scotia.²

The reports in the Ontario County Series have less detailed description and analysis than the study of Wellington County and more tabulations of data compiled out of the CANIND71 database. The reports follow a similar format. First, features of the CANIND71 database, especially its geographical organization and industrial classification, are explained so that readers can understand tables for particular counties. Each county is defined and factors in its history, location and resources that influenced the amount and character of industry by 1870-1 are noted. Then the structure and characteristics of industry in that county are summarized under the headings of location and distribution, industry types, size structure of industrial units, use of water and steam power, workplace types, and leading firms. The appendices present aggregate data grouped by geographical location, industry classifications and specific industry types. Summary data for individual establishments are then listed for the whole county, alphabetically by the proprietor's name, with additional lists for establishments in each city, town or village.

¹ T.C. Keefer, Philosophy of Railroads (1850), edited with an introduction by H.V. Nelles (Toronto: University of Toronto Press, 1972), p. 9.

² Elizabeth Bloomfield and G.T. Bloomfield, The Hum of Industry: Millers, Manufacturers and Artisans of Wellington County CANIND71 Research Report 9 (Guelph: University of Guelph, Department of Geography, 1989).

CANADIAN INDUSTRY IN 1871: ONTARIO COUNTY SERIES

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- 0-88955-250-9 Elgin County Industries, 1871: Index to Manuscript Census (#4 in series)
- 0-88955-252-5 Essex County Industries, 1871: Index to Manuscript Census (#5 in series)
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- 0-88955-267-3 Northumberland & Durham County Industries, 1871: Index to Manuscript Census
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- 0-88955-271-1 Perth County Industries, 1871: Index to Manuscript Census (#24 in series)
- 0-88955-272-X Peterborough County Industries, 1871: Index to Manuscript Census (#25 in series)
- 0-88955-273-8 Prescott & Russell County Industries, 1871: Index to Manuscript Census
(#26 in series)
- 0-88955-274-6 Prince Edward County Industries, 1871: Index to Manuscript Census
(#27 in series)
- 0-88955-275-4 Renfrew County Industries, 1871: Index to Manuscript Census (#28 in series)
- 0-88955-276-2 Simcoe County Industries, 1871: Index to Manuscript Census (#29 in series)
- 0-88955-277-0 Stormont, Dundas & Glengarry County Industries, 1871: Index to Manuscript
Census (#30 in series)
- 0-88955-278-9 Victoria County Industries, 1871: Index to Manuscript Census (#31 in series)
- 0-88955-279-7 Waterloo County Industries, 1871: Index to Manuscript Census (#32 in series)
- 0-88955-280-0 Welland County Industries, 1871: Index to Manuscript Census (#33 in series)
- 0-88955-281-9 Wentworth County Industries, 1871: Index to Manuscript Census (#34 in series)
- 0-88955-282-7 York County Industries, 1871: Index to Manuscript Census (#35 in series)
- 0-88955-283-5 Northern Districts Industries, 1871: Index to Manuscript Census (#36 in series)

INTRODUCTION TO THE CANIND71 DATABASE

The CANIND71 database is a machine-readable version of the original manuscript information for more than 45,000 industrial establishments counted in the first Census of Canada in 1871. This new source provides a wealth of information for the four provinces enumerated in 1871 -- New Brunswick, Nova Scotia, Ontario and Quebec. The 1871 census was the first to be taken on a consistent basis for the four provinces. Although similar information was collected in the Canadian censuses of 1881, 1891, 1901 and 1911, the manuscript schedules for industry have not survived. The 1871 census manuscripts are thus the only systematic source for industrial activity that survives in such detail from the nineteenth century. Moreover, the 1871 schedules contain a great deal of information that was never published at the time.

In using the CANIND71 data, we should understand the definitions and procedures used by the 1871 census enumerators:³

* Industrial businesses found by the census enumerators as they made their rounds in early April 1871 were included, and details were recorded of their operations during the preceding twelve months.

* An industrial establishment was defined as "a place where one or several people are employed in manufacturing, altering, making up or changing from one shape into another, materials for sale, use or consumption, quite irrespectively of the amount of capital employed or of the products turned out" (p. 138). No minimum value of output was set, in contrast to the United States censuses in the same period, for which only establishments with at least \$500 worth were included.

* All repairs, mending or custom work were understood to be industrial products. Thus the definition of industrial activity was considerably broader than it would be in the twentieth century.

* Numbers of workers or "employés" were defined to be the average number of persons actually working in the industrial establishment during the 12-month reporting period, and could consist entirely of members of the proprietor's family. The industrial workforce was subdivided by age and gender into men, women, boys (males under 16 years) and girls (females under 16 years), but the amount of wages paid to each age-gender group of worker was not separately stated.

* Industrial establishments were recorded in the geographical units -- District, Sub-District or Division -- in which they were found "and nowhere else. The principle is essential in every case. The production is attached to the locality" (p. 139).

* In reporting custom work such as tailoring or work done on toll such as that of some grist mills or carding mills, enumerators were told to state the real value of raw materials, even if these amounts did not pass through the accounts of the proprietor.

³ "Manual Containing the Census Act and Instructions to Officers Employed in Taking of the First Census of Canada, 1871," Canada Sessional Papers No. 64 (1871). Quotations are from this source.

* Though enumerators could specify the types, quantities and values of individual raw materials and products for each establishment, it was foreseen that in most cases only the aggregate dollar values or raw materials and products would be stated.

* Values of fixed capital and floating capital invested in the industrial business were distinguished rather than merged, and the number of working months was specified.

Only a very limited amount of the information collected in Schedule 6 of the 1871 census was published in the official census volumes of the 1870s.⁴ The statistical tables published at the time used various industrial types that were defined pragmatically rather than systematically, and then listed in alphabetical order. For each industry type, whether as specialized as whip making or as ubiquitous as blacksmithing, figures were published for numbers of establishments, hands employed, yearly wages, value of raw materials and value of products in each of 206 Census Districts.

No industrial data at all were published for smaller areal units such as the Census Sub-Districts, either as summaries of total industrial activity or for specific types of industry. Thus the only 1871 industrial information published for urban centres was for the six cities, the boundaries of which exactly coincided with those of one or more Census Districts. These were Montreal, Toronto, Hamilton, Ottawa, London and Kingston. Some information collected by the enumerators was never compiled into published tables, notably for types and horse-power units of inanimate power, months of operation during the reporting period, and "floating" capital distinguished from "fixed" capital. The published totals also understated the real extent and value of industrial activity as these can now be reconstituted from the manuscript census schedules.⁵

Database Variables

The CANIND71 database has made machine-readable information about all the industrial firms counted in Canada's first national census. For each establishment, there are up to 125 variables. The firms were located in 206 Census Districts and over 1600 Census Sub-Districts in Ontario, Quebec, New Brunswick and Nova Scotia. All details recorded by the enumerators on the manuscript census schedules have been included as basic variables in the CANIND71 database. These are: name of proprietor, kind of industrial business, geographical location, use of non-manual forms of power, numbers of workers (distinguished into men, women, boys and girls), number of working months in the year, and the dollar amounts of fixed and floating capital invested, wages, raw materials and products, as well as kinds, quantities, units of measurement and values of individual raw materials and products, and additional remarks or comments.

In addition to the information transcribed from the census manuscripts, the CANIND71 database contains several variables derived by calculation or inference from the basic variables. These include the total values of raw materials or of products

⁴ Census of Canada 1871, volume III, Tables 28-55.

⁵ For a more detailed discussion of the 1871 Census procedures and a comparison of the published and manuscript data for industry in 1871, see Creating CANIND71: Procedures for Making the 1871 Census Machine-Readable (Research Report 4, 1989).

(when only details for component products or materials had been stated on the manuscript schedules), the value added (gross value of output less costs of raw materials when both these figures were reported), the total number of employees, and the average monthly wage per employee.

Geographical Organization

The original descriptions of geographical areas defined for the 1871 Census were researched to ensure that the codes and place names were entered accurately and consistently into the database. For ease in returning to the original schedules, we adopted the same code letters and numbers that were used in 1871 to describe the Census Districts, Census Sub-Districts and Census Enumerators' Divisions. The 206 Census Districts were intended to correspond with the Electoral Districts defined under the British North America Act 1867.⁶ Census Districts were divided into 1,701 Census Sub-Districts, which were intended to correspond with Municipal or other recognized divisions -- towns, villages, townships or city wards in Ontario, for example. The Census Sub-Districts were subdivided into nearly 3,000 Census Enumerators' Divisions, but these were defined for convenience of census-taking rather than to coincide with any other system of defining areas and no maps or written descriptions of these units have survived.⁷

Details of Census District name (with variable name CDISTRIC) and number (CDID), Census Sub-District name (CSD) and Census Enumerator's Division (CED) were coded for each manuscript record as it was entered into the CANIND71 database. Usually this information was written by the census enumerators on the manuscript schedules. But we had to standardize the names and codes for computer processing. We numbered the Census Districts in the same sequence from 001: Essex in southwest Ontario to 206: Richmond, Nova Scotia. Census district numbers in Ontario were prefaced with the letter O. We also adopted the same code letters and numbers that were used to describe the smaller Census Sub-Districts and Census Enumerators' Divisions in 1871. Municipal status was abbreviated as V-Village, T-Town (or Ville), C-City and Tp-Township. In the case of CSDs with the same principal name, they are distinguished by the directional abbreviations following the place name, such as N for North or Nord, S for South or Sud, E for East or Est, W for West.

Industrial Classification

The census enumerators used natural language to describe the kinds of establishment and industrial raw materials and products they encountered.⁸ In creating the CANIND71 database, we entered the enumerators' words into the computer record, but we also assigned standardized codes to each record to denote industry types and major groups more precisely and consistently. These codes are vital for analysis of the data.

⁶ Statutes of Canada, 33 Vict. 1870, Cap. 21, s. 4.

⁷ See G.T. Bloomfield, Boundaries of Canadian Census Units in 1871 (CANIND71 Research Report 10, 1990).

⁸ See Glossary of Industrial Language (CANIND71 Research Report 5, 1989) and French-English Dictionary of Industrial Language (CANIND71 Research Report 6, 1989).

Each record in the CANIND71 database has been assigned a code according to the 1970 Standard Industrial Classification Manual of the Canada Dominion Bureau of Statistics.⁹ Understandably, there were some problems in applying a 1970 classification to the conditions of a century earlier. Changes in technology have eliminated some industry types that were common in 1871. The more rudimentary level of economic and business organization in 1871 meant that many enterprises combined industrial activities that would typically be separated in specialized businesses by 1970. Repair of all kinds of goods and equipment was more integrally associated with manufacture in 1871.

The appropriate SIC code for each record was determined by study of both the stated kind of establishment and the actual products and raw materials reported in each case. Wherever possible, we chose the SIC code that best matched the actual outputs of the business as reported for the year ending March 31, 1871. The "kind of establishment" information alone could be quite misleading, as this term was sometimes an occupational label that did not really describe the actual products. For example, a business might be described very generally as a "foundry", which would rate a code of "294" only if its products were primarily iron castings. More typically, the products of so-called foundries in 1871 were fabricated metal products such as stoves (307-S) or general machinery (315) or agricultural implements (311). In another example, one who was by trade a blacksmith and so recorded in the "kind of establishment" column may have had opportunities to make all kinds of metal goods, often including carriages and wagons. If he made definite numbers of carriages or other items of transportation equipment, his business would be assigned the appropriate and more specific SIC code of "329" rather than "896" which would be assigned for a blacksmith engaged only in "country work and repairs".

We adapted the 1970 system to the 1871 context in two main ways. First, suffixes of hyphen and capital letter could be added to the basic 3-digit code to give greater specificity, a brewery (109-B) being distinguished from a distillery (109-D) for example. Second, an establishment that combined two or more products or services was given a compound SIC code, consisting of the two most important linked by a slash (/), so that a flour mill-cum-distillery is represented as "105/109-D".

These elaborations of the basic classification system resulted in a total list of over 700 specific codes that were used to describe the 45,070 firms in the four provinces in 1871. A few of these codes were shared by large numbers of establishments. Thus 5,254 blacksmiths were assigned the SIC code of "896", 5,088 saw mills had the basic code of "251", and 4,189 shoemakers were coded "174". Some 2,830 handloom weavers were given the code "182-W", 2,527 carriage and wagon makers were coded "329", and 2,098 flour mills share the code "105". Basic SIC codes assigned to at least 50 industrial establishments throughout Canada are listed in Table 1. At the other extreme, some significant enterprises had codes that were unique for Canada.

⁹ For a more detailed discussion of our use of SIC codes, see G.T. Bloomfield, Standard Industrial Classifications Applied to Historical Data (CANIND71 Research Report 7, 1989). The CANIND71 classification is based on Dominion Bureau of Statistics, Standard Industrial Classification Manual (Ottawa, 1970); for French-language equivalents we consulted Statistique Canada, Classification type des industries (Ottawa, 1990).

Table 1
STANDARD INDUSTRIAL CLASSIFICATION (1970) ADAPTED FOR 1871:
 short list of codes with at least 50 occurrences in CANIND71 database

101-P	Pork Curing/Packing	Salaison de porc
102	Fish Curing	Salaison de poisson
104	Cheese Factories	Fromageries
105	Flour/Grist Mill	Farine, Moulin à
105-O	Oatmeal Mill	Avoine, Moulin d'
107	Bakeries	Boulangeries
108-C	Confectionery	Confiserie
109-B	Brewery	Brasserie
109-S	Aerated Water	Eaux gazeuses
153	Tobacco Working	Tabac, Manufacture d
172	Tanneries	Tanneries
174	Boots/Shoes	Bottes/Souliers
179-S	Saddle/Harness Making	Selles]
182	Woolen Cloth Factories	Drap, Fabriques de
182-W	Weaver	Tisserand
189-W	Carding/Fulling Mills	Carder/fouler, Moulins à
239-K	Stockings/Mittens/Hand Knitter	Bas/Mitaines/Tricoteur
242	Clothing	Habillements
243	Tailors/Clothiers	Habillements pour hommes
246	Furrier/Hatter	Pelleterie/Chapellerie
249-M	Milliner	Modiste
251	Saw Mill	Moulin à scie
251-S	Shingle Making	Bardeaux, Confection de
254	Sashes/Doors/Blinds	Portes/Fenêtres
256	Basket Making	Vanneries
259	Wood Products, Misc	Produits de bois, divers
259-C	Cooperage	Tonnellerie
259-W	Wood Turning Establishments	Tours à bois
261	Cabinets/Furniture	Meublerie
286	Printing office	Imprimerie
287-B	Book Binding	Reliure
289	Printing/Publishing incl newspapers	Imprimerie/Publication de
294	Foundry/Castings	Fonderie/Fonte
304-T	Tinsmith	Ferblantier
306	Agricultural Hand Tools	Outils agricoles manuels
306-T	Axes	Haches
307-S	Stoves	Poêles
309	Metal Fabricating, Misc	Fabrication de métaux
311	Agricultural Implements	Instruments aratoires
315	Machinery, Misc	Machinerie/Équipement
315-H	Spinning Wheels	Rouets
315-P	Pumps	Pompes
327	Ship Yards	Navires, Construction de
327-M	Ship Material	Appareux de navire
328	Boat Building	Chaloupes, Construction
329	Carriage Making	Carrosserie
329-P	Wheels (* and other parts)	Roues
351-B	Brick/Tile Making	Briqueterie/Tuilerie
351-P	Pottery	Poterie
353	Stone/Marble Establishments	Marbrerie
358-L	Lime Kilns	Fours à chaux
365	Oil Refineries	Épuration de l'huile
374	Drugs	Drogues
376	Soap/Candle Making	Savonneries/Chandelleries
378-P	Pot/Pearl Asheries	Potasseries
392	Jeweler/Watchmaker	Bijoutier/Horloger
421-C	Carpenter/Joiner (buildings)	Charpentier (bâtiments)
421-D	Painter/Glazier	Peintre en bâtiments
893	Photographic galleries	Photographies
896	Blacksmithing	Forges

The SIC codes were generalized into the 26 Major Industry Groups (or SECs) that were also coded for each record (Table 2). This table also reflects the inclusion by the 1871 census enumerators of a wider range of industrial activities and processes than would be defined as manufacturing industry today. Eighty-six per cent of the establishments are classified in the Major Group 5 for Manufacturing Industry, with SIC codes between 101 and 399, accounting for 95 per cent of the total value of industrial output in 1871.

Table 2
**STANDARD INDUSTRIAL CLASSIFICATION:
MAJOR GROUPS AND SIC CODES**

Major Group SEC	SIC codes
Division 1 Agricultural Services	021-029
Division 2 Forestry	031-039
Division 3 Fishing	041-049
Division 4 Mines, Salt Wells etc	051-099
Division 5 Manufacturing Industries	
5.01 Food and Beverages	101-109
5.02 Tobacco Products	151-159
5.04 Leather Industries	171-179
5.05 Textile Industries	181-189
5.06 Knitting Mills	231-239
5.07 Clothing Industries	241-249
5.08 Wood Industries	251-259
5.09 Furniture Industries	261-269
5.10 Paper Industries	271-279
5.11 Printing and Publishing	281-289
5.12 Primary Metal Industries	291-299
5.13 Metal Fabricating	301-309
5.14 Machinery Industries	311-319
5.15 Transportation Equipment	321-329
5.17 Non-metallic Minerals	351-359
5.18 Petroleum & Coal Products	361-369
5.19 Chemical Industries	371-379
5.20 Miscellaneous Manufactg	391-399
Division 6 Construction Industry	401-499
Division 7 Gas and Water Utilities	572-579
Division 8 Trade (incl repair)	601-699
Division 10 Personal/business services	861-899

Using the SIC and geographical codes, data for individual establishments can be aggregated in all sorts of ways. In the sample records and tables presented in this report, we use the same variable names as in the CANIND71 database. They are explained in Table 3.

Table 3
VARIABLE NAMES IN CANIND71 DATABASE

Abbreviated code names for variables in the CANIND71 database are used in various tables in this report. A brief explanation of each code name follows:

AVWAGE:	Average monthly wage per worker in a firm, place or type of industry.
CDID:	Census district number used in 1871 census.
CDISTRIC:	Census district name used in 1871 census.
CED:	Census enumerator's division, a small part of a census district.
COMMENTS:	Additional remarks or comments for a firm entered in manuscript schedule.
EMPBOY:	Boys (males under 16 years) employed in industrial activity.
EMPGIRL:	Girls employed (females under 16 years) in industrial activity.
EMPMEN:	Men (males over 16 years) employed in industrial activity.
EMPWOM:	Women (females over 16 years) employed in industrial activity.
FIXCAP:	Value of fixed capital reported by proprietors.
FLOCAP:	Value of floating or working capital reported by proprietors.
FORCE:	Units (in "horse power" equivalents) of non-manual power reported by proprietors.
MONTH:	Number of working months in year.
OBSERV:	Observation, unit or record in a database; in the case of CANIND71 means individual industrial establishment.
PROD1:	Named type of product, first to Nth, as numbered.
PROPRIOR:	Name of proprietor as stated in census schedules.
PQUANT1:	Quantity of named product, first to Nth, as numbered.
PUNIT1:	Unit of measurement of named product, first to Nth, as numbered.
PVALUE1:	Value of named product, first to Nth, as numbered
RAWMAT1:	Named type of raw material, first to Nth, as numbered.
RQUANT1:	Quantity of named raw material, first to Nth, as numbered.
RUNIT1:	Unit of measurement of named raw material, first to Nth, as numbered.
RVALUE1:	Value of named raw material, first to Nth, as numbered.
SEC:	Major industry group, derived from combinations of SIC codes.
SIC:	Standard Industrial Classification.
SUMPROC:	Value of industrial production (\$).
SUMRAWC:	Value of raw materials used in industry (\$).
TOTEMP:	Total number of employees, the sum of EMPMEN, EMPWOM, EMPBOY and EMPGIRL.
TYPEEST:	Type of establishment as stated by enumerator in census schedules.
TYPEPOW:	Type of power reported: steam, water, horse, W/S (water/steam).
VADD:	Value added in manufacturing (\$) = production \$ - raw materials \$.
WAGES:	Wages paid to industrial workers (\$).

ACKNOWLEDGEMENTS

Between 1982 and 1990, the CANIND71 Project based in the Department of Geography of the University of Guelph, computerized the full data for some 45,000 industrial establishments that were enumerated in Canada's first national census in 1871. We appreciate the shelter and support provided to the project by the Department of Geography. Creation and documentation of the CANIND71 database were substantially assisted by several grants from the Social Sciences and Humanities Research Council of Canada between 1985 and 1989. The most substantial of these were Grants 482-87-0010 and 482-88-0010 to Elizabeth Bloomfield as principal investigator. In a new phase of the project, computer method, led by Gerald Bloomfield and supported by SSHRCC funds, computer methods of mapping the historical data are being developed.

The interest and support of all who have assisted with this project are gratefully acknowledged. Janine Grant, Barbara Sibley, Jane Turner, Jane Darch and Stephen Bellinger worked for the project for significant periods, and the quality of the final database owes much to their careful and thorough work. Peter McCaskell, first as programmer-analyst in the Department of Geography and then from the University's Computing Services, played an essential role in database management and programming through all phases of the project. Mario Finoro, chief technician of the Department of Geography, has assisted in the acquisition, setting up and maintenance of the equipment. The computer maps in this series are the work of Larry Laliberté, while the graphs of industrial structure were produced in final form by Marie Puddister.

Elizabeth and Gerald Bloomfield

HALTON COUNTY INDUSTRIES, 1871

Halton County formed part of the maturely developed zone of Ontario by 1871, with above-average rural population densities. Its small territory combined well-established farms, several towns and villages, two major east-west railway lines, and large stands of millable woods. In its level of urban-industrial activity, Halton was broadly similar to much of southern Ontario. The mean value of industrial production per capita (\$86) was above the Ontario mean of \$74. The scale of industrial activity was generally similar, with an average 4.4 employees per industrial establishment, and a mean value of output of \$5,077 in Halton compared with an Ontario mean of \$5,516.7¹⁰

Census and Municipal Units

Census Districts were defined to match federal electoral districts rather than counties in 1871. However, the component Sub-Districts matched the smaller municipal units of townships or incorporated towns or villages. Halton County consisted of a single Census District in 1871. Figure 1 shows the locations of the various Census Sub-Districts and Table 4 summarizes their basic statistics of area (sq mls), population (pop), industrial establishments (est) and industrial employees (empl).

¹⁰ A full bibliography of the historical development of industry in each community cannot be given here, but items listed below consider industry among other topics:

Emery, Claire, From Pathway to Skyway: A History of Burlington (Burlington, 1967).

Milton Past and Present, 1857-1907 (Milton, 1907?).

Saunders, Kathleen, History of Georgetown (Cheltenham: Boston Mills Press, 1976).

Nassagaweya Centennial, 1850-1950: An Historical Volume of Nassagaweya Township in Halton County.. (Acton, 1950?).

Young, Cecil J., Oakville's 100 Years (1957).

For an account of the distinctive specialization in paper manufacture, see George Carruthers, Paper-Making (Toronto, 1907): "Barber's Mill" pp. 425-445.

The information contained in this report about proprietors of industrial establishments in 1871 may be related to the valuable index of all household heads provided in Index to the 1871 Census of Ontario: Halton-Peel (Toronto: Ontario Genealogical Society, 1986).

Location and Distribution

Seventeen per cent of the county's 22,606 people were counted in the three incorporated urban centres of Oakville (1,684), Georgetown (1,282) and Milton, the county seat (891). Industrial establishments in these three places together produced over one third of the value of industrial output in the county. The next largest unincorporated villages were Acton (about 700 people) and Wellington Square (700) which would join with Port Nelson (200) in 1873 to form Burlington. When compared with other urban centres in Ontario, only Georgetown can be characterized as industrialized with over 22 per cent of its people employed in industrial establishments, two of which were factories employing at least 26 workers each. In combining a high measure of industrial employment with a specialized structure, Georgetown most resembled Oshawa, Dundas, Gananoque and Ingersoll.¹¹

While larger enterprises were usually located in incorporated urban centres, industry was also dispersed in smaller villages and hamlets as well as in the open countryside. High values of industrial activity were recorded in Esquesing and Nelson Townships in 1871. The census manuscript schedules do not specify location in such smaller, unincorporated centres but it can be useful when comparing the census data with information from other sources to know which hamlets and villages were included in particular Census Sub-Districts. Halton County's central places are listed in Table 5, with notes of their population size and the townships in which they were located.¹²

Table 4
HALTON COUNTY: CENSUS DISTRICTS AND SUB-DISTRICTS, 1871

		sq mls	pop	est	empl
** CENSUS DISTRICT 0038 (HALTON)					
0038	A NELSON TOWNSHIP	76.50	4619	90	290
0038	B TRAFALGAR TOWNSHIP	109.97	5027	49	127
0038	C OAKVILLE TOWN	2.12	1684	26	181
0038	D MILTON TOWN	0.64	891	30	127
0038	E NASSAGAWEYA TOWNSHIP	68.52	2964	48	186
0038	F ESQUESING TOWNSHIP	112.19	6139	105	475
0038	G GEORGETOWN VILLAGE	1.86	1282	35	283
** Subtotal **		371.80	22606	383	1669

¹¹ For analysis of the urban concentration of industry and of differences between specific urban centres, see Elizabeth Bloomfield and G.T. Bloomfield, The Ontario Urban System at the Onset of the Industrial Era (CANIND71 Research Report 3, 1989).

¹² For a more detailed discussion of the location of smaller villages and hamlets in relation to the 1871 Census units, see G.T. Bloomfield, Ontario Central Places in 1871: A Gazetteer Compiled from Contemporary Sources (CANIND71 Research Report 13, 1990).

Table 5: HALTON COUNTY: CENTRAL PLACES, 1871

<u>Place</u>	<u>Population</u>	<u>Township</u>	<u>CSD</u>	<u>Sources</u>	<u>Lat.</u>	<u>Long.</u>
ACTON <i>also known as Acton West; formerly Adamsville, Danville</i>	700	Esquesing	38F	D L M	43 37	80 02
APPLEBY	150	Nelson	38A	D L P	43 23	79 46
ASHGROVE	50	Esquesing	38F	D L P	43 36	79 53
BOYNE	120	Trafalgar	38B	L P	43 29	79 50
BRONTE <i>formerly Twelve Mile Creek (C)</i>	550	Trafalgar	38B	D L P	43 24	79 43
CAMPBELLVILLE	200	Nassagaweya	38E	D L P	43 29	79 59
CUMMINSVILLE	200	Nelson	38A	D L P	43 25	79 57
DRUMQUIN	10	Trafalgar	38B	D L P	43 32	79 47
ESQUESING <i>post office for Stewarttown</i>	.	Esquesing	38F	P	43 38	79 56
GEORGETOWN 1	1282	Georgetown V	38G	D L B	43 39	79 55
GLEN WILLIAMS <i>formerly Williamsburg, William's Mill (C)</i>	300	Esquesing	38F	D L P	43 40	79 55
HALTONVILLE	100	Nassagaweya	38E	L	43 32	80 02
HANNAHSVILLE <i>later Nelson (C)</i>	.	Nelson	38A	D	43 23	79 50
HORNBY	85	Esquesing	38F	D L P	43 34	79 50
KILBRIDE	250	Nelson	38A	D L P	43 26	79 57
KNATCHBULL	.	Nassagaweya	38E	P	43 34	80 04
LIMEHOUSE	50	Esquesing	38F	D L P	43 38	79 58
LOWVILLE	150	Nelson	38A	D L P	43 26	79 54
MILTON	891	Milton T	38D	D L M	43 31	79 53
MOFFATT <i>later spelled Moffat; formerly Gomorrah</i>	.	Nassagaweya	38E	P	43 31	80 03
NASSAGAWEYA <i>later Brookville</i>	150	Nassagaweya	38E	D L M	43 32	80 03
NELSON <i>formerly Hannahsville (C)</i>	100	Nelson	38A	D L P	43 23	79 50
NORVAL <i>formerly McNabsville</i>	300	Esquesing	38F	D L M	43 39	79 51
OAKVILLE	1684	Oakville T	38C	D L B	43 27	79 41
OMAGH	.	Trafalgar	38B	D P	43 30	79 49
PALERMO <i>formerly Hagartown (C)</i>	150	Trafalgar	38B	D L M	43 26	79 47
PORT NELSON	200	Nelson	38A	L P	43 20	79 46
POSTVILLE <i>also known as Post's Corners (C); post office called Trafalgar</i>	100	Trafalgar	38B	L	43 29	79 43

SCOTCH BLOCK	150	Esquesing	38F	L P	43 34	79 56
SILVERCREEK	.	Esquesing	38F	D	43 40	79 59
STEWARTTOWN	250	Esquesing	38F	D L	43 38	79 56
<i>post office at Esquesing</i>						
TRAFALGAR	.	Trafalgar	38B	D P	43 29	79 43
<i>post office of Postville; also known as Post's Corners (C)</i>						
WELLINGTON SQUARE	700	Nelson	38A	D L B	43 19	79 47
<i>also known as Brant's Block; amalgamated with Port Nelson in 1873 to form Burlington</i>						
ZIMMERMAN	100	Nelson	38A	D L P	43 25	79 50

Note: Lat = Latitude; Long. = Longitude.

Three primary sources were used to generate this list of places for 1871:

R.G. Dun and Co.'s Mercantile Agency Reference Book (D);

Lovell's Canadian Dominion Directory for 1871 (L);

Canadian Almanac and Repository of Useful Knowledge 1871 (P for ordinary post office, M for post office that could issue money orders, B for post office with savings bank function).

Industry Types

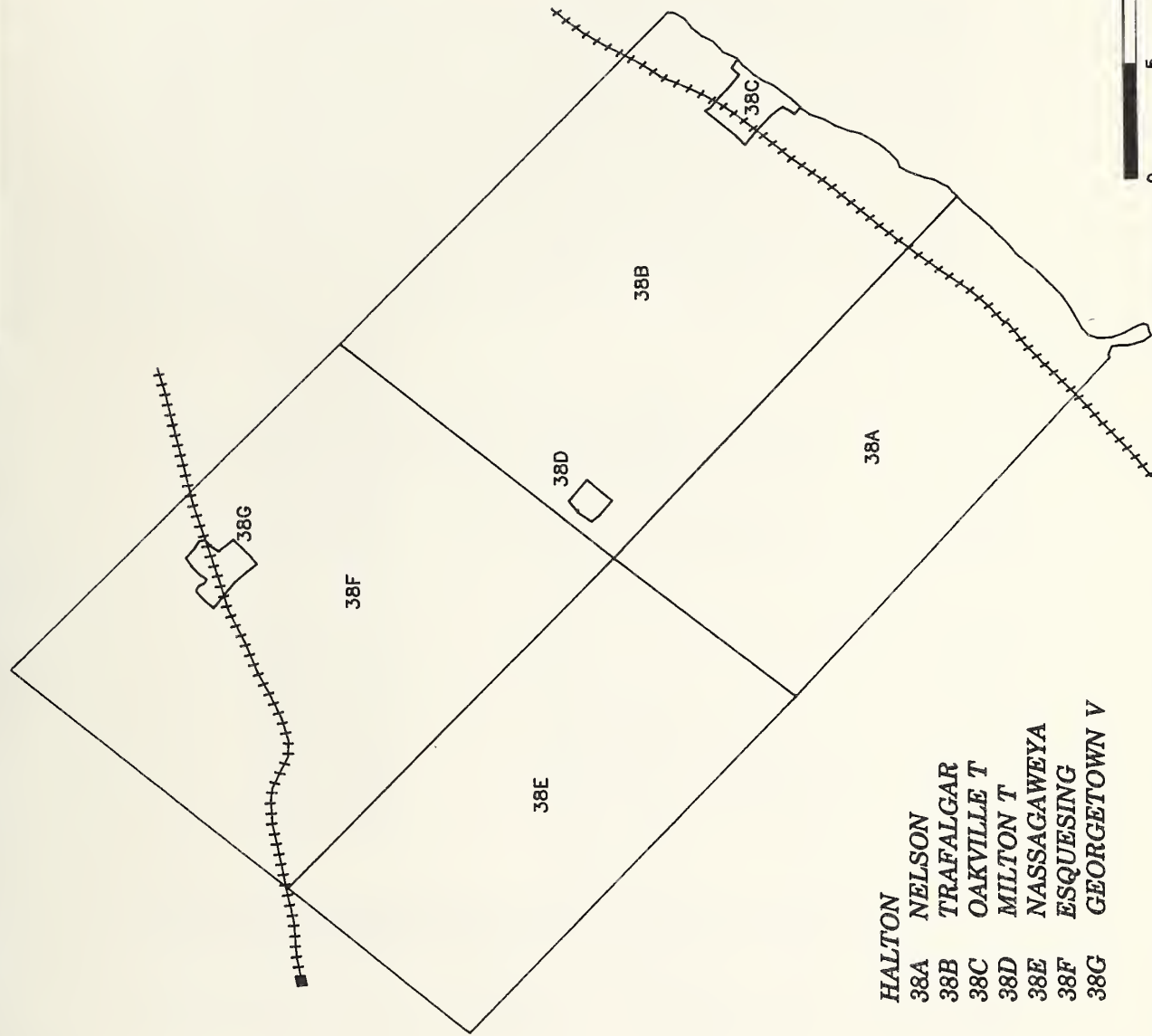
Using the Standard Industrial Classification (SIC) code of each record and the more generalized Major Industry Group (SEC), it is possible to describe and compare the industrial structures of places from whole provinces to local townships and villages. In coding all the industrial establishments of Halton County, 49 different basic SIC codes (including suffixes, but trimming compounds) are used. In all of Ontario, a total of 172 such codes are used, and 196 in all of Canada.

When Halton County's industrial structure is compared with that of Ontario as a whole, we find a mix of industry types that is fairly characteristic of rural areas but with several sectors distinctively stronger in the county than generally in the province. The diagram overpage has been designed to show these differences as clearly as possible, using major industry groups (SECs in the database). Wood processing, the largest industrial sector in Halton as in Ontario generally, was located outside urban areas and often on the margins of settlement. The wood-processing sector in Halton County was at least 1.5 times its relative strength in all of Ontario. Leather was also a strong sector, compared with its provincial share of industrial employment.

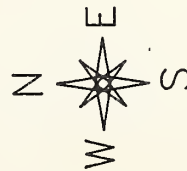
More distinctive was the local specialization in paper making, represented by the unshaded section at the 70 per cent level on the county bar. A very small sector in all of Ontario, paper manufacture was very strong in Halton County, with about ten times its mean provincial share of total industrial employment. As many as three establishments produced paper and paper products in the small village of Georgetown. Barber's large mill made several grades of paper for printing, wrapping and fabricating into envelopes. Two smaller firms presumably used some of Barber's output to produce paper products. Ebenezer White reported 11 workers (including 6 girls) making envelopes while William Shaw employed five men in the manufacture of paper window shades. Sample records for all three firms are included in this report.

The small sector of chemicals was also over-represented locally, reflecting the presence in Nelson Township of the Hamilton Powder Company making gunpowder.

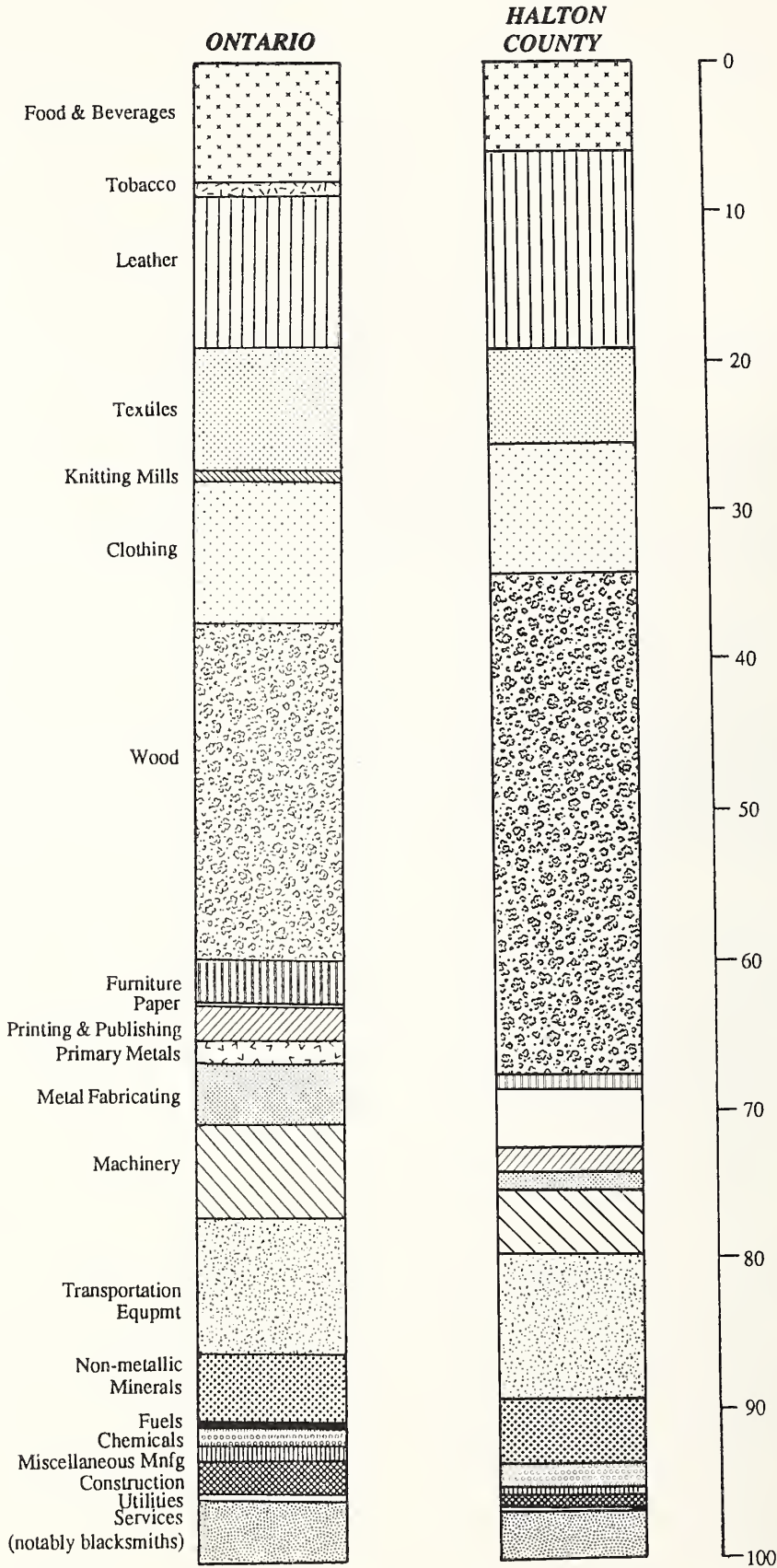
HALTON COUNTY



HALTON
 38A NELSON
 38B TRAFALGAR
 38C OAKVILLE T
 38D MILTON T
 38E NASSAGAWEYA
 38F ESQUESING
 38G GEORGETOWN V



COMPARATIVE INDUSTRIAL STRUCTURES: Percentages Employed in Major Industry Groups (SECs)



Size of Establishment

Most of Halton County's industrial units were small craftshops --blacksmiths, tinsmiths, bakers, saddlers, shoemakers, tailors, milliners, weavers and knitters, coopers, carpenters, carriage and wagon makers. Nearly four of every five establishments reported five or fewer employees, though this proportion was somewhat smaller than in Ontario generally. The largest number of employees was reported by John Dayfoot's tannery and footwear business in Georgetown which had 70 employees but a very modest value of output in 1871. Smaller factories reporting between 26 and 50 employees were James Barber's paper factory in Georgetown (46), Thompson Smith's foundry and machine shop in Oakville (40), Edward Bescoby's lime kiln in Esquesing Township (30) and the Thompson Smith Co. sawmill in Nassagaweya Township (28). Sample records for the ten establishments reporting either at least 26 employees or an output of at least \$50,000 are presented in this report.

Table 6
6a. ONTARIO INDUSTRIAL ESTABLISHMENTS, 1871
BY FIRM SIZE OR NUMBERS OF EMPLOYEES PER FIRM

	Establishments % total	Employment % total	Production % total	Value Added % total
Firm size				
# employees				
<u>small</u>				
1	39.8	9.0	6.1	6.2
2 - 5	45.3	28.5	29.9	25.7
<u>medium</u>				
6 - 50	14.1	40.1	44.2	44.6
<u>large</u>				
50+	0.8	22.4	19.8	23.5
TOTALS	100.0	100.0	100.0	100.0

6b: HALTON COUNTY INDUSTRIAL ESTABLISHMENTS, 1871
BY FIRM SIZE OR NUMBERS OF EMPLOYEES PER FIRM

	Establishments % total	Employment % total	Production % total	Value Added % total
Firm size				
# employees				
<u>small</u>				
1	30.0	6.8	7.8	8.1
2 - 5	48.8	31.5	38.9	32.5
<u>medium</u>				
6 - 50	20.9	57.5	51.2	57.2
<u>large</u>				
50+	0.3	4.2	2.1	2.2
TOTALS	100.0	100.0	100.0	100.0

CANIND71 SAMPLE RECORDS: GRAIN MILLS

proprior: **HALES CHARLES** typeest: **GRIST MILL** refnum: **10014**
 cddid: **0038** ced: **A-1** cdistric: **HALTON** csd: **NELSON**
 sec: **5.01** sic: **105** month: **12** prop:
 fixcap: **17000** flocap: **46000** typepow: **STEAM** force: **25**
 empmen: **4** empwom: **.** empboy: **.** empgirl: **.**
 totemp: **4** wages: **1360** avwage: **28.33** per worker/month
 sumrawc: **57500** sumproc: **79200** vadd: **21700**
 rawmat1: **GRAIN,WHEAT,CORN** runit1: **BU** rquant1: **46000** rvalue1: **57500**
 prod1: **FLOUR** punit1: **BBL** pquant1: **15500** pvalue1: **79200**
 comments: **COULD NOT GET ANY BETTER STATEMENT**

proprior: **CLEAVER JAMES** typeest: **FLOUR MILL** refnum: **10060**
 cddid: **0038** ced: **A-3** cdistric: **HALTON** csd: **NELSON**
 sec: **5.01** sic: **105** month: **12** prop:
 fixcap: **6000** flocap: **6000** typepow: **WATER** force: **30**
 empmen: **3** empwom: **.** empboy: **.** empgirl: **.**
 totemp: **3** wages: **1000** avwage: **27.78** per worker/month
 sumrawc: **50000** sumproc: **54000** vadd: **4000**
 rawmat1: **GRAIN,WHEAT** runit1: **BU** rquant1: **40000** rvalue1: **50000**
 prod1: **FLOUR** punit1: **BBL** pquant1: **9300** pvalue1: **.**
 prod2: **BRAN/SHORTS**
 punit2: **TON** pquant2: **130** pvalue2: **.**

proprior: **NOBLE ROBERT** typeest: **FLOUR MILL** refnum: **10313**
 cddid: **0038** ced: **F-4** cdistric: **HALTON** csd: **ESQUESING**
 sec: **5.01** sic: **105** month: **12** prop:
 fixcap: **10000** flocap: **10000** typepow: **WATER** force: **50**
 empmen: **5** empwom: **.** empboy: **.** empgirl: **.**
 totemp: **5** wages: **1800** avwage: **30.00** per worker/month
 sumrawc: **90000** sumproc: **95000** vadd: **5000**
 rawmat1: **GRAIN** runit1: **BU** rquant1: **75000** rvalue1: **90000**
 prod1: **FLOUR/BRAN/SHORTS** punit1: **BBL** pquant1: **16500** pvalue1: **95000**

CANIND71 SAMPLE RECORDS: HALTON COUNTY

proprior: ROSE	LAWRENCE	typeest: GRIST MILL	refnum: 10363
cdid: 0038	ced: G	cdistric: HALTON	csd: GEORGETOWN V
sec: 5.01	sic: 105	month: 12	prop:
fixcap: 6000	flocap: 8000	typepow: WATER	force: 40
empmen: 5	empwom: .	empboy: 1	empgirl: .
totemp: 6	wages: 1800	avwage: 25.00 per worker/month	
sumrawc: 100000		sumproc: 106200	vadd: 6200
rawmat1: GRAIN,WHEAT	runit1:	rquant1: 80000	rvalue1: 100000
prod1: FLOUR	punit1: BBL	pquant1: 18000	pvalue1: .
prod2: BRAN	punit2: TON	pquant2: 40	pvalue2: .
prod3: SHORTS	punit3: TON	pquant3: 12	pvalue3: .

proprior: DAYFOOT JOHN B		typeest: TANNERY/BOOTS/SHOES	refnum: 10358
cdid: 0038	ced: G	cdistric: HALTON	csd: GEORGETOWN V
sec: 5.04	sic: 172/174	month: 12	prop:
fixcap: 3000	flocap: 12000	typepow: WATER	force: 15
empmen: 40	empwom: 10	empboy: 20	empgirl: .
totemp: 70	wages: 12000	avwage: 14.29 per worker/month	
sumrawc: 22000		sumproc: 40000	vadd: 18000
rawmat1: BARK	runit1: CD	rquant1: 200	rvalue1: .
rawmat2: HIDES	runit2: PIECE	rquant2: 1000	rvalue2: .
rawmat3: LEATHER	runit3: TON	rquant3: 24	rvalue3: .
prod1: LEATHER	punit1: TON	pquant1: 6	pvalue1: .
prod2: BOOTS/SHOES	punit2: PR	pquant2: 30000	pvalue2: .

comments: 6 TONS OF LEATHER PRODUCT OF TANNERY AND 18 TONS OF LEATHER PURCHASED

proprior: THOMPSON SMITH & SON		typeest: SAW MILL	refnum: 10211
cdid: 0038	ced: E-1	cdistric: HALTON	csd: MASSAGANEYA
sec: 5.08	sic: 251	month: 5	prop:
fixcap: 5000	flocap: 6500	typepow: STREAM	force: 70
empmen: 25	empwom: .	empboy: 3	empgirl: .
totemp: 28	wages: 5000	avwage: 35.71 per worker/month	
sumrawc: 3500		sumproc: 18900	vadd: 15400
rawmat1: LOGS,PINE	runit1: CSL	rquant1: 10206	rvalue1: 3500
prod1: LUMBER	punit1: FT BM	pquant1: 3000000	pvalue1: 18000
prod2: LATH	punit2: BUNCH	pquant2: 9000	pvalue2: 900

comments: MUNN D - MANAGER; A LARGE QUANTITY OF LOGS IN STOCK FROM YEAR BEFORE

SAMPLE CANIND71 RECORDS: PAPER PRODUCTS

proprior: BARBER	JAMES	typeest: PAPER MILL	refnum: 10355
cdid: 0038	ced: G	cdistric: HALTON	csd: GEORGETOWN V
sec: 5.1	sic: 271	month: 12	prop:
fixcap: 50000	flocap: 35000	typepow: WATER	force: 160
empmen: 25	empwom: 12	empboy: 5	empgirl: 4
totemp: 46	wages: 11000	avwage: 19.93 per worker/month	
sumrawc: 64000		sumproc: 90000	vadd: 26000
rawmat1: RAGS/FLAX TON/STRAW	runit1: TON	rquant1: 1400	rvalue1: 45000
rawmat2: CHEMICALS/COLOURS	runit2: TON	rquant2: 200	rvalue2: 12000
rawmat3: WOOD	runit3: CD	rquant3: 1200	rvalue3: 2000
rawmat4: OTHER MATERIALS	runit4:	rquant4: .	rvalue4: 5000
prod1: PAPER,PRINTING,BOOK WRAPPING,ENVELOPE			
	punit1: TON	pquant1: 500	pvalue1: 90000

proprior: WHITE	EBENEZER	typeest: ENVELOPE MANUFACTORY	refnum: 10386
cdid: 0038	ced: G	cdistric: HALTON	csd: GEORGETOWN V
sec: 5.1	sic: 274	month: 12	prop:
fixcap: 4000	flocap: 3000	typepow: WATER	force: 4
empmen: 2	empwom: 3	empboy: .	empgirl: 6
totemp: 11	wages: 2200	avwage: 16.67 per worker/month	
sumrawc: 8100		sumprcc: 15000	vadd: 6900
rawmat1: PAPER/STRAWBOARD	runit1: TON	rquant1: 25	rvalue1: 8100
prod1: ENVELOPES	punit1:	pquant1: 12000000	pvalue1: 15000

proprior: SHAW	WILLIAM	typeest: PAPER MANUFACTORY	refnum: 10388
cdid: 0038	ced: G	cdistric: HALTON	csd: GEORGETOWN V
sec: 5.1	sic: 274	month: 12	prop:
fixcap: 4000	flocap: 2200	typepow: WATER	force: 8
empmen: 5	empwom: .	empboy: .	empgirl: .
totemp: 5	wages: 2280	avwage: 38.00 per worker/month	
sumrawc: 10000		sumproc: 13000	vadd: 3000
rawmat1: PAPER/COLOUR	runit1:	rquant1: .	rvalue1: 10000
prod1: WINDOW SHADES	punit1:	pquant1: .	pvalue1: 13000

CANIND71 SAMPLE RECORDS: HALTON COUNTY

19

proprior: SMITH & THOMPSON	typeest: FOUNDRY/MACHINE SHOP	refnum: 10148
cdid: 0038 ced: C	cdistric: HALTON	csd: OAKVILLE T
sec: 5.15 sic: 329-P	month: 12	prop:
fixcap: 30000 floccap: 15000	typepow: STREAM	force: 20
empmen: 40 empwom: .	empboy: .	empgirl: .
totemp: 40 wages: 15000	avwage: 31.25 per worker/month	
sumrawc: 18000	sumproc: 40000	vadd: 22000
rawmat1: IRON,PIG,BAR/STEEL,SPRING	runit1: TON rquant1: 300	rvalue1: 18000
prod1: SPRINGS,CARRIAGE/AXLES/MACHINES	pquant1: .	pvalue1: 40000
comments: CARRIAGE SPRINGS/AXLES/FOUNDRY/GENERAL MACHINE SHOP		

proprior: RESCOBY EDWARD	typeest: LIME KILN	refnum: 10309
cdid: 0038 ced: F-3	cdistric: HALTON	csd: ESQUESING
sec: 5.17 sic: 358-L	month: 12	prop:
fixcap: 3000 floccap: 10000	typepow:	force: .
empmen: 30 empwom: .	empboy: .	empgirl: .
totemp: 30 wages: 9000	avwage: 25.00 per worker/month	
sumrawc: 1800	sumproc: 14000	vadd: 12200
rawmat1: LIMESTONE	runit1: TOISE rquant1: 450	rvalue1: 1800
prod1: LIME	punit1: pquant1: 70000	pvalue1: 14000

proprior: HAMILTON POWDER CO	typeest: POWDER FACTORY	refnum: 10063
cdid: 0038 ced: A-3	cdistric: HALTON	csd: NELSON
sec: 5.19 sic: 379-P	month: 7	prop:
fixcap: 24000 floccap: 6000	typepow: W/S	force: 116
empmen: 13 empwom: .	empboy: .	empgirl: .
totemp: 13 wages: 4000	avwage: 43.96 per worker/month	
sumrawc: 26400	sumproc: 60000	vadd: 33600
rawmat1: SALTPETRE	runit1: LB rquant1: 400000	rvalue1: 25000
rawmat2: BRIMSTONE	runit2: LB rquant2: 30000	rvalue2: 1000
rawmat3: CHARCOAL	runit3: LB rquant3: 40000	rvalue3: 400
prod1: POWDER	punit1: KEG pquant1: 10000	pvalue1: 60000

Many industrial establishments had small values of production as well: one in seven of Halton County's units produced less than \$500 worth of industrial output, a smaller proportion than in Ontario as a whole. These small firms accounted for under half of one per cent of the county's total value of production. At the other extreme, the top six enterprises reporting at least \$50,000 worth of output each accounted for almost one quarter of the total county value of industrial production. No Halton enterprises ranked among Canada's industrial leaders in 1871, calculated as those in the top one per cent of Canadian firms in all four measures of number of employees, value of fixed capital investment, gross value of production and value added in manufacturing.¹³ However, the Barber paper mill in Georgetown ranked in the top one per cent of Canadian industrial firms in two measures, value of output and fixed capital investment.

Power Technology

Quite high levels of industrial use of water and steam power were recorded in Halton County. Nearly one in three industrial establishments reported inanimate power from waterwheels or steam engines, compared with fewer than one in five industrial firms in Ontario as a whole. Such firms were also disproportionately important in employment, investment and production. Water- and steam-powered enterprises employed 57 per cent of all industrial workers, reported four-fifths of fixed capital invested in industry and accounted for nearly 73 per cent the value of industrial production.¹⁴

Waterwheels, installed at various sites along the Niagara Escarpment, powered 45 per cent of industrial output, compared with an Ontario mean of 29 per cent. Seventeen of the establishments reporting at least 25 horse-power of inanimate industrial power used waterwheels and fifteen used steam engines. Three used waterwheels boosted by steam (Table A-5).

Work Environments

The CANIND71 database provides a snapshot of the transition from artisanal craftshops to factories using machinery and integrated work processes. A useful concept in understanding this transition is the **work environment**, which combines measures of the size of the workplace with the extent to which non-manual power was used in the industrial process. Powered and non-powered work environments are classified as to the size of their workforces, in four size classes: 1-5 workers, 6-25 workers, 26-50 workers, and 51 or more workers. Powered establishments with at least 26 workers are called **factories**, while **manufactories** are non-powered workplaces with at least 26 workers. Smaller powered establishments are called **mills** if they had from 6 to 25 workers, **powered craftshops** if they had 5 or fewer workers.

¹³ See Elizabeth Bloomfield and G.T. Bloomfield, Patterns of Canadian Industry in 1871: An Overview Based on the First Census of Canada (CANIND71 Research Report 12, 1990) and Industrial Leaders: The Largest Manufacturing Firms (CANIND71 Research Report 8, 1990).

¹⁴ See G.T. Bloomfield, Water Wheels and Steam Engines: Powered Establishments of Ontario (CANIND71 Research Report 2, 1989).

Workplaces using only hand or horse power are called **artisans' craftshops** if they employed 5 or fewer. Slightly larger craftshops, without water or steam power and employing between 6 and 25 workers, have been called **sweatshops** in the context of a large city. **Outworkers**, who toiled at home under the putting-out system, would be included with the artisans' craftshops, from which it is hard to distinguish them on census manuscript evidence alone.¹⁵ We note that the terms used to describe the eight types of work environment do not necessarily match contemporary usage in 1871, when factories, manufactories and shops were generic terms used interchangeably for all sizes of establishment. Our transcription of the natural language used by the census enumerators allows readers to note this terminology in the (TYPEEST) Type of Establishment data in the Appendix tables of this report.

USE OF POWER					
non-powered (hand/horse only)			powered by water or steam		
SIZE OF WORKFORCE	51+	MANUFACTORIES (larger)		FACTORIES (larger)	51+
	26-50	MANUFACTORIES (smaller)		FACTORIES (smaller)	26-50
	6-25	SWEATSHOPS and larger CRAFTSHOPS		MILLS	6-25
	1-5	ARTISANS' CRAFTSHOPS		POWERED WORKSHOPS, smaller MILLS	1-5
non-powered (hand/horse only)			powered by water or steam		

¹⁵ For more discussion of this concept see Patterns of Canadian Industry in 1871 (Report 12) and Elizabeth Bloomfield and G.T. Bloomfield, Canadian Women in Workshops, Mills and Factories: The Evidence of the 1871 Census Manuscripts (CANIND71 Research Report 11, 1991).

Table 7
DISTRIBUTION OF WORKERS IN WORK ENVIRONMENTS, 1871

Work Environment (# employees)	Rural Ontario	Urban Ontario	Rural Halton	Urban Halton
Non-Powered	%	%	%	%
Artisans (1-5 emp)	45.4	17.8	29.6	21.2
Sweatshops (6-25 emp)	5.8	20.2	7.1	26.7
Manufactories (26-50 emp)	0.3	4.8	2.7	-
Manufactories (>51 emp)	0.5	5.5	-	-
Sub-Total	52.0	48.3	39.4	47.9
Powered				
Small (1-5 emp)	15.8	3.2	16.1	3.9
Medium (6-25 emp)	19.6	13.0	41.9	21.8
Factories (26-50 emp)	5.4	8.3	2.6	14.6
Factories (>51 emp)	7.2	27.2	-	11.8
Sub-Total	48.0	51.7	60.6	52.1
TOTAL	100.0	100.0	100.0	100.0

How significant were the various work environments in Halton County in 1871? The pattern summarized in Table 7 shows the larger role of inanimate power and the smaller average scale of operations in the county's industrial workplaces. The mix of workplaces in the small urban centres of Halton County resembles the overall pattern for urban Ontario much more closely (except for the lack of manufactories and the weaker development of factories) than the mix for Halton's rural areas resembles rural Ontario. More than one in three of the county's industrial workers laboured in powered craftshops and small mills with between 6 and 25 employees. Typically these were smaller sawmills and woollen mills in rural areas and machinery shops in the small urban centres. When urban and rural workplaces of Halton County are distinguished, the three most common types of urban workplaces are non-powered shops with 6-25 workers, followed equally by smaller artisanal shops with 1-5 workers and the powered craftshops. More than four of every ten rural workers were counted in small mills and powered craftshops, with another three in ten in artisanal craftshops (with five or fewer workers).

Though the proportion of women and girls in the Halton County workforce was below the provincial mean, it was a little higher than the norm for mainly rural counties. As elsewhere, female industrial workers were concentrated in the clothing and textile sectors but in Halton County they were also employed in paper mills, shops making footwear and other leather products, and cheese factories (Table A-6).

Appendix Tables

This county report presents several kinds of tabulations which are briefly introduced here. In understanding the abbreviated code names of database variables, users are referred to Table 3 on page 7, for the Standard Industrial Classification codes to Table 1 on page 5, and for the Major Industry Groups to Table 2 on page 6.

Table A-1: Halton County: Geographical Summary of Firms, 1871

Summary data for each Census Sub-District (CSD), including horse-power units of non-manual power, value of fixed and floating capital, numbers of employees (men, women, boys, girls and total), annual wages paid, costs of raw materials, gross value of production, value added in manufacturing, and number of establishments. Data are totalled for each Census District (or part thereof) in the county, and totalled for the whole county. See Figure 1 for a map of CSDs and pp. 9-12 for discussion of the distribution of industrial activity.

Table A-2: Halton County: Industrial Structure, 1871

Summary data for each Major Industry Group, including numbers and percentages of establishments, horse-power units, value of fixed capital, total employment, gross value of production, and value added in manufacturing. See Figure 2 for diagrammatic representations for the employment structure by Major Industry Groups of Halton County in relation to the structure for all of Ontario in 1871.

Table A-3: Basic SIC codes for Halton County, 1871

Summary data for each Standard Industrial Classification type (including code suffixes but trimming compounds). For discussion of SIC types, see pp. 4-5 and p. 12.

Table A-4: Listings of Individual Establishments, Ranked by Value of Output, for Various SIC Types, 1871

Data for flour mills; tanneries; saddleries; boot and shoe makers; textile producers; clothing producers; saw mills and wood processing; furniture shops; paper mills; tinsmiths; machinery producers; carriage and wagon makers; non-metallic minerals; chemical works; and blacksmiths.

Table A-5: Halton County: Firms Using Inanimate Power, 1871

Data for individual establishments reporting at least 25 horse-power units of water, steam or horse power, ranked by horse-power units.

Table A-6: Halton County: Firms Employing at least Two Females in 1871

Data for individual establishments, ranked by number of women and girls employed. Note use of FEMALE (total number of women and girls employed) as variable in this table only.

Table A-7: Halton County: Firms by Name of Proprietor, 1871

Data for individual establishments in alphabetical order of proprietor's name.

Table A-8: Urban Centres: Firms by Name of Proprietor, 1871

Data for individual establishments in alphabetical order of proprietor's name - Georgetown, Milton and Oakville.

Table A-1: Halton County: Geographical Summary of Firms, 1871

HALTON COUNTY: GEOGRAPHICAL SUMMARY OF FIRMS, 1871

CDID	CED	CSD	FORCE	FIXCAP	FLOCAP	EMP MEN	EMP WOM	EMP BOY	EMP GIRL	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD	OBSERV
0038	A	NELSON	690	125200	166570	243	27	20	1	290	71996	290698	483005	192307	90
0038	B	TRAFALGAR	97	29694	26915	95	22	8	2	127	28993	42136	96332	54196	49
0038	C	OAKVILLE T	117	105150	82000	134	26	17	4	181	54056	71100	158853	87753	26
0038	D	MILTON T	99	54420	36680	105	17	5	.	127	38120	53925	125863	71938	30
0038	E	NASSAGAWEYA	362	44634	64902	161	13	10	2	186	31354	58160	127407	69247	48
0038	F	ESQUESING	833	218135	168978	386	26	63	.	475	130984	340586	573296	232710	105
0038	G	GEORGETOWN V	329	107150	84780	172	55	44	12	283	65368	254050	379318	125268	35
0038			2527	684383	630825	1295	186	167	21	1669	420871	1110655	1944074	833419	383
			2527	684383	630825	1295	186	167	21	1669	420871	1110655	1944074	833419	383

Table A-2: Halton County: Industrial Structure, 1871

HALTON COUNTY: INDUSTRY GROUPS, 1871

SEC	OBSERV		FORCE		FIXCAP		TOTEMP		SUMPROC		VADD	
	SUM	PERC- ENT	SUM	PERC- ENT	SUM	PERC- ENT	SUM	PERC- ENT	SUM	PERC- ENT	SUM	PERC- ENT
5.01	31	8.1	407	16.1	116775	17.1	82	4.9	603002	31.0	107971	13.0
5.04	53	13.8	90	3.6	78560	11.5	222	13.3	229626	11.8	107405	12.9
5.05	31	8.1	184	7.3	48137	7.0	114	6.8	102870	5.3	46676	5.6
5.07	38	9.9	.	.	17800	2.6	148	8.8	122336	6.3	59916	7.2
5.08	83	21.7	1414	56.0	189400	27.7	559	33.5	371759	19.1	204702	24.6
5.09	10	2.6	15	0.6	5600	0.8	19	1.1	17575	0.9	13210	1.6
5.1	3	0.8	172	6.8	58000	8.5	62	3.7	118000	6.1	35900	4.3
5.11	5	1.3	.	.	12500	1.8	32	1.9	19900	1.0	14875	1.8
5.13	11	2.9	.	.	11590	1.7	22	1.3	23230	1.2	15055	1.8
5.14	15	3.9	81	3.2	29866	4.4	75	4.5	56886	2.9	42327	5.1
5.15	36	9.4	47	1.9	59390	8.7	158	9.4	116414	6.0	76221	9.1
5.17	13	3.4	1	0.0	13280	1.9	75	4.5	43691	2.2	35749	4.3
5.19	5	1.3	116	4.6	29350	4.3	24	1.4	73095	3.8	39215	4.7
5.2	4	1.0	.	.	1850	0.3	11	0.7	6580	0.3	4060	0.5
6	3	0.8	.	.	900	0.1	5	0.3	2700	0.1	2170	0.3
8	1	0.3	.	.	300	0.0	1	0.1	400	0.0	287	0.0
10	41	10.7	.	.	11085	1.6	61	3.7	36010	1.9	27680	3.3
ALL	383	100.0	2527	100.0	684383	100.0	1669	100.0	1944074	100.0	833419	100.0

Table A-3: Basic SIC codes for Halton County, 1871

BASIC SIC CODES FOR HALTON COUNTY, 1871

SIC	OBSERV	FORCE	FIXCAP	FLOCAP	EMP MEN	EMP WOM	EMP BOY	EMPGIRL	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
104	9	.	4175	5230	8	12	3	1	24	2350	10559	17159	6600
105	14	403	100500	105120	37	0	1	.	38	13860	464092	544175	80083
107	6	.	2100	2350	8	2	1	.	11	3610	11320	18668	7348
109-B	2	4	10000	6400	7	1	1	.	9	3050	9060	23000	13940
172	10	90	61000	67300	87	10	25	.	122	29050	89820	147359	57539
174	27	.	12470	10460	52	4	2	.	58	15732	15601	42697	27096
175	1	.	.	3000	3	6	1	.	10	2750	3900	9000	5100
179-S	15	.	5090	8950	31	0	1	.	32	10180	12900	30570	17670
182	7	110	42800	29900	36	23	17	3	79	18856	46296	85470	39174
182-W	22	.	1337	51	14	13	1	1	29	2585	5568	11250	5682
189-W	2	74	4000	550	5	0	1	.	6	1000	4330	6150	1820
242	7	.	4500	2200	13	22	0	4	39	8260	11220	26428	15208
243	19	.	9850	11450	29	35	0	.	64	15045	30000	57058	27058
244	4	.	150	15	0	5	0	.	5	800	2600	3650	1050
246	1	.	.	200	1	2	0	.	3	400	300	800	500
249-M	7	.	3300	6800	5	32	0	.	37	6494	18300	34400	16100
251	46	987	142800	174351	343	1	17	.	361	85304	135403	277715	142312
251-S	19	323	30200	26875	73	2	41	.	116	20806	19300	49410	30110
254	1	16	6000	12000	8	0	6	.	14	3500	3000	9594	6594
256	2	.	1000	500	3	0	10	2	15	1400	300	3200	2900
258	1	.	300	500	1	0	0	.	1	350	200	1500	1300
259-C	8	30	5100	6000	35	0	0	.	35	9150	6010	19940	13930
259-W	6	58	4000	2900	13	0	4	.	17	4010	2844	10400	7556
261	10	15	5600	2425	19	0	0	.	19	7200	4365	17575	13210
271	1	160	50000	35000	25	12	5	4	46	11000	64000	90000	26000
274	2	12	8000	5200	7	3	0	6	16	4480	18100	28000	9900
286	1	.	1000	500	4	0	1	.	5	1800	500	2500	2000
289	4	.	11500	600	19	0	8	.	27	7400	4525	17400	12875
304-T	9	.	11400	6800	17	0	0	.	17	5730	7923	21450	13527
306	2	.	190	510	5	0	0	.	5	1160	252	1780	1528
311	11	81	29316	13933	65	0	6	.	71	21620	13992	54546	40354
315-P	4	.	550	454	4	0	0	.	4	950	567	2340	1773
326	1	.	400	100	4	0	0	.	4	1508	800	2600	1800
329	29	27	27115	21510	94	0	9	.	103	28155	19685	66976	47291
329-P	6	20	31875	16455	51	0	0	.	51	17850	19708	46838	27130
351-B	2	1	500	500	6	0	0	.	6	1100	150	2400	2250
351-P	1	.	200	200	1	0	0	.	1	400	200	1200	1000
353	1	.	6000	4000	10	0	0	.	10	3600	3000	8500	5500
358-L	9	.	6580	16006	58	0	0	.	58	17826	4592	31591	26999
374	1	.	1300	6000	3	0	3	.	6	1600	6000	9500	3500
378-P	2	.	550	410	4	0	0	.	4	430	480	1195	715
379-H	1	.	3500	500	1	0	0	.	1	500	1000	2400	1400
379-P	1	116	24000	6000	13	0	0	.	13	4000	26400	60000	33600
391	2	.	350	200	1	1	0	.	2	1000	220	1600	1380
399-B	2	.	1500	1300	7	0	2	.	9	3200	2300	4980	2680
421-C	3	.	900	350	5	0	0	.	5	1650	530	2700	2170
658	1	.	300	12	1	0	0	.	1	150	113	400	287
893	5	.	1550	345	5	0	0	.	5	2000	650	3250	2600
896	36	.	9535	8413	55	0	1	.	56	16020	7680	32760	25080
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	383	2527	684383	630825	1295	186	167	21	1669	420871	1110655	1944074	833419

Table A-4: Listings of Individual Establishments,
Ranked by Value of Output, for Various SIC Types, 1871

HALTON COUNTY: FLOUR MILLS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	G	ROSE	LAWRENC	105	6000	WATER	40	6	1800	100000	106200	6200
0038	F-4	NOBLE	ROBERT	105	10000	WATER	50	5	1800	90000	95000	5000
0038	A-1	HALES	CHARLES	105	17000	STEAM	25	4	1360	57500	79200	21700
0038	A-3	CLEAVER	JAMES	105	6000	WATER	30	3	1000	50000	54000	4000
0038	A-3	HAMILTON	POWDER C	105	5000	WATER	30	2	750	40000	48500	8500
0038	F-2	TOLTON	GEORGE	105	6000	WATER	20	4	1600	25992	31000	5008
0038	F-2	NICKLIN	B W	105	6000	W/S	25	2	1000	20000	25000	5000
0038	F-4	WILLIAMS	JOSEPH	105	6000	WATER	35	1	450	20000	22000	2000
0038	A-3	THOMPSON	ROBERT	105	3500	WATER	20	1	500	13600	20700	7100
0038	D	RAMNENT	SOLOMON	105	20000	WATER	30	2	940	15000	19000	4000
0038	E-1	ABREY	GEORGE	105	5000	WATER	20	1	360	11000	16500	5500
0038	A-2	ZIMMERMAN	HUGH P	105	6000	WATER	30	1	500	14000	16000	2000
0038	B-2	WILLSON	WILLIAM	105	.	WATER	8	3	600	6000	8075	2075
0038	C	WARCUP	ISAAC	105	4000	WATER	40	3	1200	1000	3000	2000
					100500		403	38	13860	464092	544175	80083

HALTON COUNTY: TANNERIES, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	F-2	BEARDMORE	GEORGE	172	30000	STEAM	15	14	4400	32000	48000	16000
0038	G	DAYFOOT	JOHN B	172/174	3000	WATER	15	70	12000	22000	40000	18000
0038	C	SMITH &	THOMPSON	172	17000	STEAM	10	18	6000	14500	20559	6059
0038	D	TAYLOR	SAMUEL	172	2500	STEAM	10	3	1800	5000	12000	7000
0038	B-2	BOWMAN	ANN & ALBE	172	3000	STEAM	15	4	1800	6500	10000	3500
0038	G	HILLOCK	JOHN	172	2000	STEAM	12	4	1000	4000	7000	3000
0038	A-3	VANCE &	MCCAY	172	600	WATER	10	3	600	3000	4500	1500
0038	A-3	LEE	GEORGE	172	500	HORSE	1	2	500	1200	2500	1300
0038	F-4	CROSS	DAVID	172	2000	HORSE	1	3	800	1500	2400	900
0038	F-1	DRUMMOND	PHILIP	172	400	HORSE	1	1	150	120	400	280
					61000		90	122	29050	89820	147359	57539

HALTON COUNTY: SADDLERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	G	TAYLOR	JOHN F	179-S/179-T	100		.	3	900	1500	4000	2500
0038	A-3	MCNAB &	PARKER	179-S	250		.	3	1000	1550	3550	2000
0038	C	GULLIDGE	HENRY	179-S	1000		.	4	1800	1500	3500	2000
0038	B-2	GLASS	THOMAS	179-S	400		.	3	800	1600	3000	1400
0038	C	TAYLOR	JAMES	179-S	500		.	2	620	1400	2500	1100
0038	D	LITTLE	WILLIAM	179-S	70		.	3	900	1200	2320	1120
0038	F-4	NIXON	EDWARD	179-S	1000		.	2	800	1000	2000	1000
0038	F-4	SPARROW	THOMAS	179-S	200		.	2	600	700	2000	1300
0038	A-1	ALLEN	HENRY	179-S	500		.	1	250	250	1500	1250
0038	F-2	CRUCK	ROBERT	179-S	500		.	2	350	800	1400	600
0038	A-1	WATTS	THOMAS	179-S	800		.	2	600	300	1350	1050
0038	D	JONES	RICHARD	179-S	.		.	2	760	1250	2000	1050
0038	F-4	HEWSON	THOMAS	179-S	250		.	2	400	600	1200	600
0038	G	CAMPBELL	ARCHIB	179-S	20		.	1	400	300	1000	700
0038	F-4	GALLOP	ELI	179-S	20		.	0
					5090		0	32	10180	12900	30570	17670

HALTON COUNTY: BOOTMAKERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUNRAWC	SUMPROC	VADD
0038	D	NIERHAUS F W	BOOT/SHOE SHOP	174	1700	.	.	4	1000	3000	5000	2000
0038	C	REYNOLDS THOMAS	BOOT/SHOE EST	174	2000	.	.	5	1560	1500	4500	3000
0038	C	ORR WILLIAM A	BOOT/SHOE EST	174	2500	.	.	5	1500	2000	4000	2000
0038	A-1	BELL ROBERT	SHOE SHOP	174	600	.	.	5	1200	1000	3750	2000
0038	E-3	MCCRANEY M J	BOOT/SHOEMAKER	174	200	.	.	2	450	600	3000	2400
0038	C	WALSH WILLIAM	BOOT/SHOE MF	174	1500	.	.	3	1200	1000	2600	1600
0038	A-3	PEMERKE JOHN B	SHOE SHOP	174	150	.	.	2	600	850	2400	1550
0038	A-3	THOMPSON ROBERT	SHOEMAKER SHOP	174	100	.	.	3	700	900	2100	1200
0038	G	AUSTIN WILLIAM	SHOEMAKER SHOP	174	.	.	.	4	1000	650	1700	1050
0038	F-4	LITTLE ARTHUR	SHOE SHOP	174	500	.	.	2	800	500	1500	1000
0038	A-3	PEART JOHN	SHOE SHOP	174	100	.	.	2	400	500	1000	500
0038	B-3	RAMBOUGH WILLIAM	BOOT/SHOEMAKER	174	200	.	.	2	412	300	1000	700
0038	E-2	MEADE ROBERT	SHOEMAKER SHOP	174	1000	.	.	2	400	300	1000	700
0038	F-4	JACKSON WILLIAM	SHOE SHOP	174	200	.	.	1	400	250	1000	750
0038	G	ALLEN WILLIAM	SHOEMAKER SHOP	174	100	.	.	1	400	600	1000	400
0038	F-2	MALONEY DAVID	SHOE SHOP	174	100	.	.	1	350	300	960	660
0038	C	JOHNSON ADAM	BOOT/SHOE EST	174	300	.	.	1	400	100	800	700
0038	D	MACKEY PETER M	SHOEMAKER EST	174	300	.	.	1	480	100	800	700
0038	E-1	HUBBARD MICHAEL	SHOE SHOP	174	250	.	.	2	300	250	750	500
0038	E-2	WALLACE HIRAM	SHOEMAKER SHOP	174	40	.	.	2	600	100	700	600
0038	F-2	GRANT ALEX	SHOEMAKER SHOP	174	200	.	.	1	350	70	650	580
0038	D	ANDERSEN WILLIAM	BOOT/SHOE SHOP	174	100	.	.	1	200	200	600	400
0038	F-2	MARSHALL THOMAS	SHOEMAKER SHOP	174	50	.	.	1	250	146	487	341
0038	B-3	FLYN GILBERT	SHOE/BOOTMAKER	174	100	.	.	2	200	100	400	300
0038	F-1	MCLAREN DONALD	SHOEMAKER	174	30	.	.	1	150	200	400	200
0038	B-3	COLTON THOMAS	BOOT/SHOEMAKER	174	50	.	.	1	230	60	350	290
0038	B-2	ELLIOTT GEORGE	SHOE SHOP	174	100	.	.	1	200	25	250	225
					12470	0	58	15732	15601	42697	27096	

HALTON COUNTY: TEXTILE MILLS AND WEAVERS, 1871

CDID	CED	PROPRIOR	TYPEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	F-4	ROSS	JOHN	182	12000	WATER	20	18	6000	15000	25000	10000
0038	F-3	HURST	RICHARD	182	1800	WATER	15	11	2400	12480	15680	3200
0038	F-4	WILLIAMS	CHARLES	182	12000	WATER	20	17	3900	6600	14000	7400
0038	E-1	DAVIDSON	BROS	182	5500	WATER	25	11	2100	3366	11310	7944
0038	F-3	NEWTON	JOHN	182	3000	WATER	5	7	2256	3000	8000	5000
0038	B-4	MCCANN	LOGAN	182	3500	WATER	10	6	1000	4250	7880	3630
0038	A-2	CRAWFORD	GEORGE C	182	5000	WATER	15	9	1200	1600	3600	2000
0038	G	BARBER	JOSEPH	189-W	2000	WATER	50	2	400	3000	3500	500
0038	A-3	MONTGOMERY	WM P	189-W/182	2000	W/S	24	4	600	1330	2650	1320
0038	B-3	WRIGHT	JOSEPH	182-W	40		.	4	250	600	1300	700
0038	B-3	ROW	MARY	182-W	12		.	1	250	600	1300	700
0038	E-1	MILLER	GAVIN	182-W	50		.	2	100	800	1000	200
0038	E-2	KING	WILLIAM	182-W	60		.	1	160	400	1000	600
0038	F-1	BULLOCK	GEORGE	182-W	40		.	1	100	600	800	200
0038	B-5	FULLERTON	JAMES	182-W	350		.	1	250	250	780	530
0038	E-3	TAYLOR	THOMAS	182-W	100		.	1	250	225	750	525
0038	F-1	PATERSON	SCOTT	182-W	40		.	1	100	500	600	100
0038	B-5	HOWARD	THOMAS	182-W	300		.	1	140	200	550	350
0038	B-3	WARDEN	ELIZABETH	182-W	12		.	2	100	300	500	200
0038	B-1	GREENY	ALVIRA	182-W	20		.	1	200	75	450	375
0038	F-2	RUDDLE	MARGARE	182-W	25		.	1	140	180	400	220
0038	E-3	WHITE	JAMES	182-W	23		.	1	100	150	375	225
0038	A-3	SHARPE	THOMAS	182-W	50		.	2	200	50	325	275
0038	B-4	EMMETT	STEPHEN	182-W	20		.	1	90	180	300	120
0038	B-1	TAYLOR	MARY	182-W	65		.	2	60	87	225	138
0038	E-1	BURN	WILLIAM	182-W	20		.	1	36	93	150	57
0038	E-1	CURRIE	MRS R	182-W	20		.	1	10	110	150	40
0038	E-1	JOB	MRS WM	182-W	20		.	1	10	37	105	68
0038	E-1	CARRADIA	MRS D ?	182-W	20		.	1	15	65	80	15
0038	E-1	CHISHOLM	PETER	182-W	30		.	1	12	46	68	22
0038	E-1	GOLLAHER	MRS THO	182-W	20		.	1	12	20	42	22
					48137		184	114	22441	56194	102870	46676

HALTON COUNTY: CLOTHING AND MILLINERY SHOPS, 1871

CDID	CED	PROPRIOR	TYPEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	G	MCLEOD ANDERSON & MILLINERY/MANTLE	249-M/244	1000	.	.	.	21	4000	9000	20000	11000
0038	A-3	MCNAB & PARKER	TAILOR SHOP	243	500	.	.	8	2500	5000	12000	7000
0038	G	MCKINNON SIDNEY F CLOTHING/MILLINERY	242/249-M	2000	.	.	.	15	3500	9000	5000	5000
0038	C	HAGAMAN W E TAILOR	243	2000	.	.	.	8	1560	4000	6500	2500
0038	C	WILLIAMS JOHN A CLOTHING MANUFAC	243	2000	.	.	.	7	1090	3000	6500	3500
0038	D	LYONS WILLIAM TAILOR ESTABLISH	243	600	.	.	.	7	2000	3500	3000	3000
0038	C	BARCLAY J & CO TAILOR/MILLINERY	242/249-M	2000	.	.	.	10	1400	2000	6000	4000
0038	A-3	MCNAB & PARKER MILLINER SHOP	249-M	150	.	.	.	3	350	4000	5000	1000
0038	A-3	LESLIE THOMAS TAILOR SHOP	243	200	.	.	.	3	1000	3200	4450	1250
0038	B-3	BOWER CHARLES TAILOR	243	800	.	.	.	4	700	2500	3600	1100
0038	G	GUTHRIE ROBERT TAILOR SHOP	242	200	.	.	.	4	960	1400	3600	2200
0038	A-1	WALDIE J & CO TAILOR/MILLINERY	242/249-M	200	.	.	.	3	1000	1500	3000	1500
0038	A-3	THOMPSON ROBERT MILLINER ROOMS	249-M	650	.	.	.	1	280	2000	2800	800
0038	C	PATTERSON THOMAS MILLINERY	249-M/244	600	.	.	.	6	936	1500	2600	1100
0038	D	BEWS & HALCRO TAILOR ESTABLISH	242	3	700	1120	2528	1408
0038	A-1	WILSON ALEXANDER TAILOR SHOP	243	400	.	.	.	2	600	1000	2000	1000
0038	D	CHRISTIE DAVID MILLINERY EST	249-M/244	100	.	.	.	4	600	500	2000	1500
0038	D	HOLLINRAKE JAMES TAILOR ESTABLISH	243	800	.	.	.	6	750	750	1872	1122
0038	A-3	MCINTOSH DONALD TAILOR SHOP	243	100	.	.	.	3	550	1000	1800	800
0038	G	RUE JOHN TAILOR SHOP	243	200	.	.	.	2	500	700	1600	900
0038	B-3	KEACH & BROS & CO TAILOR MANUFACTO	243	300	.	.	.	2	575	600	1500	900
0038	F-2	VANALIEN CHARLES TAILOR SHOP	243	300	.	.	.	1	400	600	1500	900
0038	A-2	RICHARDSON WILLIA TAILOR SHOP	243	400	.	.	.	1	400	750	1350	600
0038	A-2	PATTON JOHN A TAILOR SHOP	242	2	400	600	1300	700
0038	A-3	DELONG MARGARET DRESSMAKER ROOMS	244/245	40	.	.	.	1	200	1000	1250	250
0038	D	LITTLE DAVID TAILOR	243	250	.	.	.	2	600	250	1248	998
0038	A-1	HALES JOSEPH MILLINERY	249-M/244	600	.	.	.	1	200	900	1200	300
0038	F-2	DICKSON ADAM TAILOR SHOP	243	150	.	.	.	2	400	600	1200	600
0038	B-3	MCCRANEY M J TAILOR	243	200	.	.	.	2	450	1500	1060	-440
0038	A-1	CLINE A B TAILOR SHOP	243	500	.	.	.	1	350	500	1000	500
0038	A-3	FREEMAN HARRIET DRESSMAKER SHOP	244	30	.	.	.	1	200	750	1000	250
0038	A-3	CLARKE MARY DRESSMAKER SHOP	244	60	.	.	.	2	300	600	1000	400
0038	E-2	PLAYER WILLIAM TAILOR SHOP	242	100	.	.	.	2	128	400	800	400
0038	A-1	BASLEDO & ALLEN MILLINERY	249-M	200	.	.	.	1	400	300	800	500
0038	D	BASTEDO JACOB FURRIER EST	246	3	320	350	750	400
0038	A-3	KLEINKE ANDREW TAILOR SHOP	243	50	.	.	.	2	300	200	628	428
0038	E-1	BUCK WILLIAM TAILOR SHOP	243	100	.	.	.	1	200	100	400	300
0038	B-3	SMITH HANNAH DRESSMAKER	244/243	20	.	.	.	2	200	100	400	300
									30999	62420	122336	59916
									0	148		
									17800			

HALTON COUNTY: SAWMILLS AND WOOD PROCESSING, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	F-5	GOUDY & EAGER	STEWART SAW MILL	251	25000	STEAM	25	18	8000	16000	21000	5000
0038	A-1	EAGER BENJAMIN	SAW MILL	251	3000	STEAM	20	25	8000	10000	20000	10000
0038	F-1	SHARP WILLIAM & C	SAW MILL	251	15000	STEAM	35	21	8000	6000	20000	14000
0038	E-1	THOMPSON SMITH &	SAW MILL	251	5000	STEAM	70	28	5000	3500	18900	15400
0038	E-1	CARGILL & WHEELSH	SAW MILL	251	4000	STEAM	40	15	3200	10966	18368	7402
0038	F-1	SYMONS CHARLES	SAW MILL	251	10000	STEAM	18	17	4000	5250	12700	7400
0038	F-5	COOK GEORGE	SAW MILL/SHINGLE	251/251-S	.	STEAM	25	14	3140	4500	11500	7000
0038	C	MCCAULEY WILLIAM	SAW MILL	251/251-S	15000	STEAM	25	11	4500	5200	11000	5800
0038	F-1	SHORTREED THOMAS	SAW MILL	251	2000	STEAM	35	18	5000	4500	11000	6500
0038	D	CALDWELL WILLIAM	SAW MILL	251/251-S	3000	STEAM	20	10	4250	4000	10400	6400
0038	A-1	FRASER D	SAW MILL	251	2500	STEAM	25	9	1900	6000	10000	4000
0038	C	WOOD RICHARD	SHAW PLANING M/BLIND	254	6000	STEAM	16	14	3500	3000	9594	6594
0038	A-1	ZIMMERMAN & SON	SAW MILL	251	3000	STEAM	35	5	1600	4500	9000	4500
0038	E-1	MCGIBBON FINLAY	SAW MILL	251	4000	W/S	55	15	2000	6600	9000	2400
0038	A-3	CALDWELL & WHITE	SAW MILL	251	1650	STEAM	40	14	2500	4000	8000	4000
0038	E-2	CARGILL HENRY	SAW MILL	251	4000	STEAM	30	11	2200	4000	8000	4000
0038	E-1	WILLMOTT & HALTON	SAW MILL	251	2000	WATER	30	15	3000	3600	7372	3772
0038	A-3	READHEAD JOHN	SAW MILL	251	1500	STEAM	20	5	1700	4500	7000	2500
0038	E-2	COX SAMUEL	SAW MILL	251	2500	STEAM	25	16	2500	2500	7000	4500
0038	F-4	LAWSON HENRY	SAW MILL	251	3000	WATER	35	6	1800	3000	7000	4000
0038	A-3	KING THOMAS	SHINGLE FACTORY	251-S	2000	STEAM	15	10	3000	2000	6500	4500
0038	F-4	HUNT JOHN	TURNING SHOP	259-W	2000	WATER	30	9	2500	2100	6500	4400
0038	F-4	WILLIAMS CHARLES	SAW MILL	251	3000	WATER	30	5	1500	3000	6000	3000
0038	E-1	HADDIN ROBERT	SAW MILL	251/251-S	600	STEAM	16	7	1200	2600	5925	3325
0038	F-2	COATES JOHN B	COOPER SHOP/ASHE	259-C/378-P	3000	STEAM	25	10	3500	1750	5500	3750
0038	F-1	GOODWILLIE JAMES	SHINGLE FACTORY	251-S	1000	WATER	.	13	3000	1500	5000	3500
0038	F-4	NOBLE ROBERT	SAW MILL	251	1200	WATER	.	2	600	3125	5000	1875
0038	F-4	NOBLE ROBERT	COOPER SHOP	259-C	1200	WATER	.	4	2000	1500	5000	3500
0038	F-4	BESCOBY EDWARD	SAW MILL	251	4000	WATER	20	4	1500	2500	4800	2300
0038	F-5	IRVIN JOHN	SHINGLE FACTORY	251-S	1500	STEAM	12	6	1400	2300	4500	2200
0038	F-3	ORR HENRY	SHINGLE FCY/STAVE	251-S/251	2000	WATER	20	6	1600	2000	4000	2000
0038	G	ZIMMERMAN H P	SHINGLE FACTORY	251-S	5000	WATER	18	9	1500	1500	3800	1500
0038	A-2	KENNEDY GEORGE	SAW MILL	251	2500	WATER	20	4	1200	1600	3500	1900
0038	F-4	BROOKS JOHN	SAW MILL	251	1200	STEAM	18	4	1500	2000	3500	1600
0038	F-3	COOPER ARCHIE	SHINGLE MILL	251-S	1000	WATER	12	6	1500	750	3400	2650
0038	A-1	OGG NELSON	COOPER SHOP	259-C	400	STEAM	.	6	1400	1200	3000	1800
0038	F-1	SAWYER PETER	SHINGLE FACTORY	251-S	2600	STEAM	16	6	960	1600	3000	2000
0038	F-3	SMITH & McDONALD	SHINGLE MILL	251-S	1200	STEAM	20	5	600	750	2600	1850
0038	F-3	JOHNSTON ROBERT	SHINGLE MILL	251-S	2000	STEAM	20	8	1596	800	2560	1760
0038	A-3	HAMILTON POWDER C	COOPER SP/STAVE	259-C	2000	STEAM	30	8	1000	260	2500	2240
0038	A-3	CLARKE JAMES	SHINGLE/STAVE FC	251-S/251	1500	STEAM	15	5	800	1600	2300	700
0038	B-2	BUCK JOHN	SAW MILL	251	500	WATER	11	5	500	1000	2250	1250
0038	F-2	MOORE & BROS	SHINGLE FACTORY	251-S	2000	STEAM	20	4	1000	900	2200	1300
0038	C	CHISHOLM W B & C	FRUIT BASKET MF	256	400	STEAM	.	8	600	200	2000	1800
0038	E-2	CARGILL HENRY	SHINGLE FACTORY	251-S	1400	STEAM	20	5	800	1000	2000	1000
0038	F-4	JOHNSON & WILSON	SHINGLE FACTORY	251-S	1400	WATER	.	4	650	1000	2000	1000
0038	A-2	WILSON JAMES	SAW MILL/SHINGLE	251/251-S	2000	STEAM	16	5	650	1000	1800	800
0038	A-2	ZIMMERMAN H P	SHINGLE MILL	251-S	1000	WATER	40	2	300	300	1540	1240
0038	A-1	OGG WILLIAM	COOPER SHOP	259-C	200	WATER	.	1	350	200	1500	1300
0038	A-1	BENT JAMES C	CARPENTER SHOP	258/259	300	WATER	.	1	250	700	1500	800
0038	B-2	CULHAIN CHARLES	SAW MILL	251	400	WATER	11	2	250	700	1500	800

HALTON COUNTY: SAWMILLS AND WOOD PROCESSING, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUNRAWC	SUMPROC	VADD
0038	F-4	MITCHEL	COOPER SHOP	259-C	400			2	650	600	1500	900
0038	A-3	MCGREGOR	SAW MILL/SHINGLE	251/251-S	2000	WATER	8	4	500	800	1460	660
0038	D	LINDSAY	STAVE FACTORY	251	1100	STEAM	12	8	700	1300	700	600
0038	F-5	MORRISON	SHINGLE MANUFACT	251-S	1200	STEAM	12	7	300	450	1300	850
0038	F-1	ELLIOTT	SAW MILL	251	400	WATER	20	2	200	900	1260	360
0038	A-3	SMALL FRANCIS	SAW MILL	251	500	WATER	10	2	150	1000	1200	200
0038	C	JOHNSON	BASKET FACTORY	256	600			7	800	100	1200	1100
0038	F-4	WHITNEY	TURNING SHOP	259-W	400	WATER	15	2	550	420	1200	780
0038	F-4	WILLIAMS	TURNING SHOP	259-W	600	WATER		3	450	220	1200	980
0038	F-3	COOPER	SAW MILL	251	500	WATER	10	1	168	672	1050	378
0038	E-2	BELL	THOMAS	251	700	WATER		6	500	400	1000	600
0038	F-3	TWEDDIE	SAW MILL	251	600	WATER	12	2	300	400	1000	600
0038	F-5	COOK	SHINGLE FACTORY	251-S	1000	STEAM	16	6	400	500	1000	500
0038	D	LINDSAY	COOPER SHOP	259-C				3	300	400	900	500
0038	F-3	NEWTON	SAW MILL	251	1000	WATER	5	2	180	500	875	375
0038	A-3	SPRINGER	TURNING LATHE	259-W	600	WATER	8	1	60	10	800	790
0038	A-3	CALDWELL & WHITE	SHINGLE FACTORY	251-S	500	STEAM	10	5	300	450	750	300
0038	F-1	ROPER	SAW MILL	251	800	WATER	20	2	150	400	750	350
0038	F-2	SMITH	CHARLES	251-S/251	2000	STEAM	16	4	250	300	750	450
0038	F-1	HUME	SHINGLE/PLANING	251	400	WATER	20	1	120	400	600	200
0038	A-2	CAMPBELL	SAW MILL	251	1000	WATER	20	1	98	250	550	300
0038	F-3	MC MURCHY	TURNING SHOP	259-W	200	WATER	2	1	300	84	500	416
0038	B-1	ABREY	SAW MILL	251	500	WATER		2	140	200	370	170
0038	E-1	SPEIGHT	SAW MILL	251	1000	WATER	20	4	30	220	330	110
0038	F-2	HIKON	SAW MILL	251	300	WATER	12	1	52	200	300	120
0038	B-3	HENTON	SAW MILL	251	2000	WATER	20	2	46	120	240	120
0038	E-1	ANTHONY	SAW MILL	251	250	WATER	8	2	50	50	225	175
0038	A-3	LIDDLE DAVID	WOOD TURNER SHOP	259-W	200	WATER	3	1	150	10	200	190
0038	F-5	MILLER	SAW MILL	251	2000	WATER		2	30	50	90	40
0038	A-3	READHEAD	SHINGLE FACTORY	251-S	800	STEAM	16	5	650			
0038	A-3	CLARKE JAMES	COOPER SHOP	259-C	300			1				
									1414	559	371759	204702
									124520	167057		
									189400			

HALTON COUNTY: FURNITURE FACTORIES AND SHOPS

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	C	YOUNG	WILLIAM	CABINET MANUFACT	261	1000	.	3	1800	1000	5000	4000
0038	C	TILLER	GEORGE	CABINET MANUFACT	261	2000	.	2	950	2000	4500	2500
0038	C	TAIT	ROBERT	CABINETWARE MF	261/258	600	.	2	1200	500	2500	2000
0038	A-3	RUMPLE	FREDERICK	CABINETMAKER SHO	261	200	.	2	450	190	1500	1310
0038	G	WILSON	JOHN G	CABINET SHOP	261	500	4	4	900	100	1200	1100
0038	A-3	RUMPLE	ELIZA ANN	CABINET FACTORY	261	600	8	2	650	200	1000	800
0038	D	JONES	BENJAMI	CABINET EST	261	200	.	1	500	120	800	680
0038	G	THAYER	CHARLES	CABINET SHOP	261	100	.	1	300	120	500	380
0038	E-2	STURJEL	HENRY ?	CABINETMAKER SHO	261	300	.	1	250	75	325	250
0038	E-1	LIDDLE	JOHN	TURNING SHOP	261	100	3	1	200	60	250	190
						5600	15	19	7200	4365	17575	13210

HALTON COUNTY: PAPER MILLS AND PAPER PRODUCTS

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	G	BARBER	JAMES	PAPER MILL	271	50000	160	46	11000	64000	90000	26000
0038	G	WHITE	EBENEZE	ENVELOPE MANUFAC	274	4000	4	11	2200	8100	15000	6900
0038	G	SHAW	WILLIAM	PAPER MANUFACTOR	274	4000	8	5	2280	10000	13000	3000
						58000	172	62	15480	82100	118000	35900

HALTON COUNTY: TINSMITHS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUNRAWC	SUMPROC	VADD
0038	G	STATHAM	SILAS	304-T	3500	.	.	2	750	1800	5400	3600
0038	C	MOORE JOHN & C	TINSMITH	304-T	2500	.	.	2	700	3000	5000	2000
0038	A-1	ALLEN	J & G	304-T	1200	.	.	3	800	800	4000	3200
0038	C	TROTT J B & C	TINSMITH	304-T	2000	.	.	2	1040	1500	3500	2000
0038	D	MCDERMOTT PATRICK	TINWARE EST	304-T	1300	.	.	1	540	400	1200	800
0038	D	MERLINET JOHN	TINSMITH EST	304-T	.	.	.	3	900	270	1200	930
0038	A-3	MILLS FRANCIS	TIN SHOP	304-T	500	.	.	2	550	120	800	680
0038	F-2	WEIGER	CHARLES	304-T	200	.	.	1	250	33	350	317
0038	F-4	KERR	WILLIAM	304-T	200	.	.	1	200	.	.	.
					11400		0	17	5730	7923	21450	13527

HALTON COUNTY: MACHINERY MAKERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUNRAWC	SUMPROC	VADD
0038	D	BROTHERS	JOSEPH	311	10000	STEAM	25	20	6000	6430	22700	16270
0038	B-3	LAWRANCE & SONS	IRON FNDRY/AGRC	311	9000	STEAM	20	21	8000	2910	17600	14690
0038	G	MCKINNON	DONALD	311	1400	STEAM	.	6	1800	2120	4800	2680
0038	G	MCKENZIE GEORGE C	FOUNDRY	311	5000	STEAM	18	10	2000	950	3000	2050
0038	F-2	STEPHENSON WILLIA	BLACKSMITH SHOP	311	1500	WATER	10	3	600	500	1600	1100
0038	B-3	MCKENZIE JOHN	BLACKSMITH	311/896	250	.	.	3	900	240	1196	956
0038	G	GREAVES ALEX	BLACKSMITH SHOP	311	200	.	.	2	400	400	1000	600
0038	F-1	LAIDLAW JOHN	PLANING MACHINE	311/254	1300	STEAM	8	2	800	66	900	834
0038	F-1	MCDONALD HUGH	BLACKSMITH	311	400	.	.	2	600	190	900	710
0038	A-1	LAND HIRAM	PUMPMAKER	315-P	100	.	.	1	200	200	800	600
0038	F-4	BROWN ROBERT	PUMP SHOP	315-P	100	.	.	1	250	250	800	550
0038	A-3	SHANNON JOSEPH	PUMPMAKER SHOP	315-P	300	.	.	1	400	100	600	500
0038	A-3	DENT WILLIAM	CARPENTER SHOP	311/261	40	.	.	1	400	36	500	464
0038	E-3	BURROWS WILLIAM	BLACKSMITH SHOP	311	226	.	.	1	120	150	350	200
0038	E-3	SHANNON DAVID	PUMP FACTORY	315-P	50	.	.	1	100	17	140	123
					29866		81	75	22570	14559	56886	42327

HALTON COUNTY: CARRIAGE AND WAGON MAKERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUNRAWC	SUNPROC	VADD
0038	C	SMITH & THOMPSON	FOUNDRY/MACHINE	329-P	30000	STEAM	20	40	15000	18000	40000	22000
0038	D	HAWTHORNE ROBERT	CARRIAGE/WAGON F	329	5000	HORSE	2	11	4400	3000	10000	7000
0038	C	HAGAMAN JEREMIA	CARRIAGE/WAGON F	329	6000	STEAM	6	12	3000	2500	7500	5000
0038	G	CULP & MCKENZIE	CARRIAGE FACTORY	329	1200			13	1500	3000	7000	4000
0038	A-1	ALLEN JAMES	CARRIAGE/WAGONNA	329	1600			9	2800	550	6850	6300
0038	A-3	GILMER WILLIAM	CARRIAGE/WAGON S	329	1000	STEAM	8	4	1600	1500	4000	2500
0038	F-2	SPEIGHT MICHAEL	BLACKSMITH SHOP	329	500			4	1500	600	3000	2400
0038	A-3	GREER JAMES	WAGON/PAINT SHOP	329	700			3	700	1000	2600	1600
0038	A-1	HARRISON THOMAS	WAGON SHOP	329	2000			6	1300	580	2500	1920
0038	A-3	MCKNAIR GEORGE	BLACKSMITH FORCE	329-P	1500			4	800	600	2500	1900
0038	G	HANHAM EDWIN	CARRIAGE SHOP	329	1500			2	1000	1000	2500	1500
0038	B-5	BROWN CHARLES	BLACKSMITH/WAGON	329/896	500			5	1200	400	1900	1500
0038	B-5	SHAND JAMES	BLACKSMITH/WAGON	329/896	1000	STEAM	2	2	800	300	1800	1500
0038	D	CAROUQUE WILLIAM	CARRIAGE FACTORY	329	200			2	800	810	1800	990
0038	F-4	BELL THOMAS	BLACKSMITH SHOP	329	1000			3	600	900	1800	900
0038	D	LOWERY JOSEPH	WAGON FACTORY	329	100			2	980	600	1750	1150
0038	E-3	RAMSHAW G & R	BLACKSMITH FORCE	329-P	535			2	800	385	1600	1215
0038	F-2	SPEIGHT JOHN	WAGON FACTORY	329	1000	WATER	7	3	600	300	1570	1270
0038	A-2	MCGOWAN & SMYTH	WAGON/BLACKSMITH	329	800	HORSE	2	4	600	660	1400	740
0038	A-3	BURTON ROBERT	BLACKSMITH SHOP	329-P	500			2	700	300	1400	1100
0038	G	HARLEY JOHN	BLACKSMITH SHOP	329	100			1	450	200	1200	1000
0038	E-3	KEAN JOSIAH	BLACKSMITH FORCE	329-P	500			2	450	323	1100	777
0038	A-3	WORTHINGTON JOSHU	WAGONMAKER SHOP	329	400			2	450	100	950	850
0038	B-3	BELL THOMAS	WHEELWRIGHT	329	200			2	400	360	906	546
0038	B-5	TAYLOR WILLIAM	WAGONMAKER	329/311	200			1	400	300	900	600
0038	F-2	GRANT WILLIAM	WAGON SHOP	329	300			2	400	150	800	650
0038	B-3	FOSTER JOSEPH	BLACKSMITH	329/896	200			2	500	125	700	575
0038	B-4	BOWES WILLIAM	CARPENTER SHOP	329/311	100			1	400	240	700	460
0038	E-3	RAMSHAW JAMES	CARRIAGE FACTORY	329	675			1	275	175	600	425
0038	F-3	BELGROVE BENJAMI	WAGON SHOP	329	200			1	400	75	600	525
0038	F-4	WATSON WILLIAM	WAGON SHOP	329	140			2	400	50	600	550
0038	E-3	EDWARDS JOHN	WAGON SHOP	329	250			1	300	130	500	370
0038	E-2	KEAN ALEXAND	CARRIAGE/MAKER SH	329	200			1	50	300	250	250
0038	B-2	ARCHER THOMAS	WAGON/SLEIGH FCY	329	50			1	200	30	250	220
0038	E-3	ANDERSON WILLIAM	BLACKSMITH FORCE	329-P	140			1	100	100	238	138
					58990			47	154	46005	39393	74421
											113814	

HALTON COUNTY: NON-METALLIC MINERALS

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	F-3	BESCOBY	EDWARD	358-L	3000		.	30	9000	1800	14000	12200
0038	F-3	FARQUAR	JAMES	358-L	2500		.	16	6200	2160	12960	10800
0038	G	ORR	EDWARD	353	6000		.	10	3600	3000	8500	5500
0038	F-3	LYNDEN	JOHN	358-L	400		.	3	1500	300	2250	1950
0038	A-1	BROWN EDWIN	TILE FACTORY	351-B	200		.	2	600	100	1200	1100
0038	F-3	LESLIE	JOHN	351-B	300	HORSE	1	4	500	50	1200	1150
0038	F-4	MCCONNELL	POTTER	351-P	200		.	1	400	200	1200	1000
0038	F-1	ROBERTSON	DUNCAN	358-L	400		.	2	600	150	1150	1000
0038	F-3	FOSTER	THOMAS	358-L	50		.	2	250	60	625	565
0038	F-3	LITT	JAMES	358-L	100		.	1	160	20	250	230
0038	F-2	STAFFOR	ABRAM	358-L	40		.	2	52	50	150	100
0038	E-1	MITCHELL	JOSEPH	358-L	40		.	1	40	32	131	99
0038	E-2	REDING	RICHARD	358-L	50		.	1	24	20	75	55
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					13280		1	75	22926	7942	43691	35749

HALTON COUNTY: CHEMICAL WORKS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	A-3	HAMILTON	POWDER C	379-P	24000	W/S	116	13	4000	26400	60000	33600
0038	F-2	MILLBURN	THOMAS	374	1300		.	6	1600	6000	9500	3500
0038	A-3	HAMILTON	POWDER C	379-H	3500		.	1	500	1000	2400	1400
0038	D	CENTRE	SOCRATE	378-P/376	300		.	2	280	400	895	495
0038	F-1	CURTIS	WILLIAM	378-P	250		.	2	150	80	300	220
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					29350		116	24	6530	33880	73095	39215

HALTON COUNTY: BLACKSMITHS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	B-4	LITTLE & PAINE	BLACKSMITH FORGE	896	400			3	1280	280	2000	1720
0038	E-1	MENZIES JAMES	BLACKSMITH SHOP	896	300			3	700	760	2000	1240
0038	F-2	RYDER JAMES	BLACKSMITH SHOP	896	400			2	800	640	2000	1360
0038	F-4	HARPER ROBERT	BLACKSMITH SHOP	896	200			1	500	600	1800	1200
0038	D	WALDIE JAMES	BLACKSMITH	896	800			3	900	350	1500	1150
0038	F-4	ALEXANDER THOMAS	BLACKSMITH SHOP	896	600			1	400	300	1400	1100
0038	B-5	SANDERS JOHN	BLACKSMITH SHOP	896	500			1	450	300	1300	1000
0038	A-1	STEWART CHARLES	BLACKSMITH SHOP	896	300			2	450	310	1200	890
0038	F-4	WATSON ROBERT	BLACKSMITH SHOP	896	450			1	400	250	1200	950
0038	F-4	TOAST WILLIAM	BLACKSMITH SHOP	896	100			1	400	250	1200	950
0038	A-1	HAYGARTH THOMAS	BLACKSMITH SHOP	896				3	800	200	1000	800
0038	A-2	ZIMMERMAN H P	BLACKSMITH SHOP	896	500			2	420	100	1000	900
0038	A-3	GREENLEES JOHN A	BLACKSMITH FORGE	896	200			2	400	300	1000	700
0038	B-4	WAUGH CHARLES	BLACKSMITH FORGE	896	300			2	600	210	1000	790
0038	E-2	MOFFAT JAMES	BLACKSMITH SHOP	896	400			3	600	200	1000	800
0038	F-3	BENNIE THOMAS	BLACKSMITH SHOP	896	250			1	300	500	1000	500
0038	F-4	HOOD WILLIAM	BLACKSMITH SHOP	896	400			1	450	400	1000	600
0038	F-4	HOLMES JOHN	BLACKSMITH SHOP	896	200			1	480	280	1000	720
0038	A-2	WATSON THOMAS	BLACKSMITH SHOP	896	200			2	500	150	950	800
0038	B-5	KING SAMUEL	BLACKSMITH SHOP	896	500			2	600	120	900	780
0038	A-2	CARTWRIGHT FREDER	BLACKSMITH	896	300			2	400	80	800	720
0038	A-3	CLARKE JAMES	BLACKSMITH FORGE	896	200			1	180	60	800	740
0038	B-3	ADAMS SAMUEL	BLACKSMITH	896	175			2	460	120	680	560
0038	F-3	FORD ROBERT	BLACKSMITH FORGE	896	200			1	400	100	600	500
0038	A-3	SHURT NELSON ?	BLACKSMITH FORGE	896	50			1	400	100	520	420
0038	A-3	GASTLE WILLIAM	BLACKSMITH FORGE	896	50			1	400	50	510	460
0038	A-2	TULL ALFRED H	BLACKSMITH	896	200			1	400	120	500	380
0038	B-1	OGIEROD STEPHEN ?	BLACKSMITH FORGE	896	300			1	250	140	500	360
0038	B-4	DIXON WILLIAM	BLACKSMITH FORGE	896	100			1	400	20	500	480
0038	E-2	KEAN HUGH	BLACKSMITH FORGE	896	200			2	300	100	500	400
0038	A-3	GREENLEES GEORGE	BLACKSMITH FORGE	896	30			1	300	12	350	338
0038	B-2	COULSON WILLIAM	BLACKSMITH FORGE	896	100			1	200	100	300	200
0038	B-2	DOUGHERLY JAMES	BLACKSMITH FORGE	896	100			1	200	60	300	240
0038	B-2	CLIVE HIRAM	BLACKSMITH FORGE	896	30			1	200	20	250	230
0038	E-3	THOMAS EDWARD	BLACKSMITH FORGE	896	300			1	100	20	140	120
0038	F-5	CASLER ROBERT	BLACKSMITH SHOP	896	200			1		78	60	-18
					9535	0	56	16020	7680	32760	25080	

Table A-5: Halton County: Firms Using Inanimate Power, 1871

HALTON COUNTY: FIRMS USING INANIMATE POWER (25+ HP), 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	G	BARBER JAMES	PAPER MILL	271	5000	WATER	160	46	11000	64000	90000	26000
0038	A-3	HAMILTON POWDER C	POWDER FACTORY	379-P	24000	W/S	116	13	4000	26400	60000	33600
0038	E-1	THOMPSON SMITH &	SAW MILL	251	5000	STEAM	70	28	5000	3500	18900	15400
0038	E-1	MCGIBBON FINLAY	SAW MILL	251	4000	W/S	55	15	2000	6600	9000	2400
0038	F-4	NOBLE ROBERT	FLOUR MILL	105	10000	WATER	50	5	1800	90000	95000	5000
0038	G	BARBER JOSEPH	CARDING MACHINE	189-W	2000	WATER	50	2	400	3000	3500	500
0038	A-2	ZIMMERMAN H P	SAW MILL	251	5000	WATER	40	4	1000	2000	3600	1600
0038	A-2	ZIMMERMAN H P	SHINGLE MILL	251-S	1000	WATER	40	2	500	500	1750	1250
0038	A-3	CALDWELL & WHITE	SAW MILL	251	1650	STEAM	40	14	2500	4000	8000	4000
0038	C	WARGUP ISAAC	GRIST/FLOUR MILL	105	4000	WATER	40	3	1200	1000	3000	2000
0038	E-1	CARGILL & WHEELSH	SAW MILL	251	6000	WATER	40	15	3200	10966	18368	7402
0038	G	ROSE LAWRENC	GRIST MILL	105	6000	WATER	40	6	1800	100000	106200	6200
0038	A-1	ZIMMERMAN & SON	SAW MILL	251	3000	STEAM	35	5	1600	4500	9000	4500
0038	F-1	SHARP WILLIAM & C	SAW MILL	251	15000	STEAM	35	21	8000	6000	20000	14000
0038	F-1	SHORTREED THOMAS	SAW MILL	251	2000	STEAM	35	18	5000	4500	11000	6500
0038	F-4	LAWSON HENRY	SAW MILL	251	3000	WATER	35	6	1800	3000	7000	4000
0038	F-4	WILLIAMS JOSEPH	GRIST/FLOUR MILL	105	6000	WATER	35	1	450	20000	22000	2000
0038	A-2	ZIMMERMAN HUGH P	FLOUR MILL	105	6000	WATER	30	1	500	14000	16000	2000
0038	A-3	CLEAVER JAMES	FLOUR MILL	105	5000	WATER	30	3	1000	50000	54000	4000
0038	A-3	HAMILTON POWDER C	GRIST/FLOUR MILL	105	5000	WATER	30	2	750	40000	48500	8500
0038	A-3	HAMILTON POWDER C	COOPER SP/STAVE	259-C	2000	STEAM	30	8	1000	260	2500	2240
0038	D	RAMMANT SOLOMON	FLOUR MILL	105	20000	WATER	30	2	940	15000	19000	4000
0038	E-1	WILLMOTT & HALTON	SAW MILL	251	2000	WATER	30	15	3000	3600	7372	3772
0038	E-2	CARGILL HENRY	SAW MILL	251	4000	STEAM	30	11	2200	4000	8000	4000
0038	F-4	HUNT JOHN	TURNING SHOP	259-W	2000	WATER	30	9	2500	2100	6500	4400
0038	F-4	WILLIAMS CHARLES	SAW MILL	251	3000	WATER	30	5	1500	3000	6000	3000
0038	A-1	HALES CHARLES	GRIST MILL	105	17000	STEAM	25	4	1360	57500	79200	21700
0038	A-1	FRASER D	SAW MILL	251	2500	STEAM	25	9	1900	6000	10000	4000
0038	C	MCCAULY WILLIAM	SAW MILL	251/251-S	15000	STEAM	25	11	4500	5200	11000	5800
0038	D	BROTHERS JOSEPH	IRON FOUNDRY	311	10000	STEAM	25	20	6000	6430	22700	16270
0038	E-1	DAVIDSON BROS	WOOLEN FACTORY	182	5500	WATER	25	11	2100	3366	11310	7944
0038	E-2	COX SAMUEL	SAW MILL	251	2500	STEAM	25	16	2500	2500	7000	4500
0038	F-1	GOODWILLIE JAMES	SHINGLE FACTORY	251-S	3000	STEAM	25	13	3000	1500	5000	3500
0038	F-2	NICKLIN B W	GRIST MILL	105	6000	W/S	25	2	1000	20000	25000	5000
0038	F-5	COOK GEORGE	SAW MILL/SHINGLE	251/251-S	25000	STEAM	25	14	3140	4500	11500	7000
0038	F-5	GOUDY & STEWARD	SAW MILL	251	25000	STEAM	25	18	8000	16000	21000	5000
							1436	378	98140	604922	857900	252978
							282150					

Table A-6: Halton County: Firms Employing at least Two Females in 1871

HALTON COUNTY: FIRMS EMPLOYING 2+ FEMALES IN 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	FEMALE	WAGES	SUMRAWC	SUMPROC	VADD
0038	G	BARBER JAMES	PAPER MILL	271	5000	WATER	160	16	11000	64000	90000	26000
0038	G	MCLEOD ANDERSON & MILLINERY/HANTLE	249-M	1000				16	4000	9000	20000	11000
0038	G	MCINNON SIDNEY F	CLOTHING/MILLINE	172	2000			11	3500	9000	3500	5000
0038	G	DAYFOOT JOHN B	TANNERY/BOOTS/SH	172	3000	WATER	15	10	12000	22000	40000	18000
0038	G	WHITE EBENEZE	ENVELOPE MANUFAC	274	4000	WATER	4	9	2200	8100	15000	6900
0038	C	BARCLAY J & CO	TAILOR/MILLINERY	242	2000			8	1400	2000	6000	4000
0038	C	PATERSON THOMAS	MILLINERY	249-M	600			6	936	1500	2600	1100
0038	C	HAGAMAN W E	TAILOR	243	2000			6	1560	4000	6500	2500
0038	C	WILLIAMS JOHN A	CLOTHING MANUFAC	243	2000			6	1090	3000	6500	3500
0038	E-1	DAVIDSON BROS	WOOLEN FACTORY	182	5500	WATER	25	6	2100	3366	11310	7944
0038	F-2	STORY WILLIAM	CANADIAN GLOVE W	175				6	2750	3900	9000	5100
0038	D	HOLLINRAKE JAMES	TAILOR ESTABLISH	243	800			5	750	750	1872	1122
0038	F-4	WILLIAMS CHARLES	WOOLEN FACTORY	182	12000	WATER	20	5	3900	6600	14000	7400
0038	A-2	CRAWFORD GEORGE C	WOOLEN FACTORY	182	5000	WATER	15	4	1200	3600	3600	2000
0038	D	CHRISTIE DAVID	MILLINERY EST	249-M	100			4	600	500	2000	1500
0038	F-3	HURST RICHARD	WOOLEN FACTORY	182	1800	WATER	15	4	2400	12480	15680	3200
0038	A-3	MCNAB & PARKER	TAILOR SHOP	243	500			3	2500	5000	12000	7000
0038	B-3	MARSHALL JOHN	CHEESE MANUFACTO	104	300			3	200	1500	1800	300
0038	D	LYONS WILLIAM	TAILOR ESTABLISH	243	600			3	2000	3500	6500	3000
0038	F-4	ROSS JOHN	WOOLEN FACTORY	182	12000	WATER	20	3	6000	15000	25000	10000
0038	A-3	MCNAB & PARKER	MILLINER SHOP	249-M	150			3	350	4000	5000	1000
0038	A-1	WALDIE J & CO	TAILOR/MILLINERY	242	200			2	1000	1500	3000	1500
0038	A-3	MCINTOSH DONALD	TAILOR SHOP	243	100			2	550	1000	1800	800
0038	A-3	LESLIE THOMAS	TAILOR SHOP	243	200			2	1000	3200	4450	1250
0038	B-1	TAYLOR MARY	WEAVER	182-W	65			2	60	87	225	138
0038	B-3	SMITH HANNAH	DRESSMAKER	244	20			2	200	100	400	300
0038	B-3	WARDEN ELIZABETH	WEAVER	182-W	12			2	100	300	500	200
0038	B-3	BOWER CHARLES	TAILOR	243	800			2	700	2500	3600	1100
0038	B-4	MCCANN LOGAN	WOOLEN FACTORY	182	3500	WATER	10	2	1000	4250	7880	3630
0038	B-4	WILLINOT THOMAS	CHEESE FACTORY	104	1000			2	500	3594	5840	2246
0038	B-4	BEATTY WILLIAM C	CHEESE FACTORY	104	800			2	250	800	2000	1200
0038	C	JOHNSON ROBERT	BASKET FACTORY	256	600			2	800	100	1200	1100
0038	D	BASTEDO JACOB	FURRIER EST	246				2	400	300	800	500
0038	E-2	CARGILL HENRY	SHINGLE FACTORY	251-S	1500	STEAM	20	2	800	1000	2000	1000
0038	F-3	NEWTON JOHN	WOOLEN FACTORY	182	3000	WATER	5	2	2256	3000	8000	5000
0038	F-5	MILLER ROBERT	CHEESE FACTORY	104	300			2	200	105	250	145
0038	G	GUTHRIE ROBERT	TAILOR SHOP	242	200			2	960	1400	3600	2200
					117647				73212	199032	348907	149875
						309	169					

Table A-6: Halton County: Firms by Name of Proprietor, 1871

CDID	CED	PROPRIOR	TYPEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	B-1		SAW MILL	251	500	WATER	.	2	140	200	370	170
0038	F-3		SHINGLE FCY/STAV	251-S/251	2000	WATER	20	6	1600	2000	4000	2000
0038	E-1	ABREY	GRIST MILL	105	5000	WATER	20	1	360	11000	16500	5500
0038	E-1	ABREY	SAW MILL	251	1000	WATER	20	4	30	220	330	110
0038	B-3	ADAMS SAMUEL	BLACKSMITH	896	175		.	2	460	120	680	560
0038	F-4	ALEXANDER THOMAS	BLACKSMITH SHOP	896	600		.	1	400	300	1400	1100
0038	G	ALLAN JAMES	BAKERY	107	500		.	2	800	2500	4500	2000
0038	A-1	ALLEN J & G	TINSMITH	304-T	1200		.	3	800	800	4000	3200
0038	A-1	ALLEN JAMES	CARRIAGE/WAGONMA	329	1600		.	9	2800	550	6850	6300
0038	G	ALLEN WILLIAM	SHOEMAKER SHOP	174	100		.	1	400	600	1000	400
0038	A-1	ALLEN HENRY	HARNESSMAKER	179-S	200		.	1	250	250	1500	1250
0038	D	ANDERSEN WILLIAM	BOOT/SHOE SHOP	174	100		.	1	200	200	600	400
0038	G	ANDERSON ROBERT	CARPENTER SHOP	421-C	400		.	2	350	230	600	370
0038	E-3	ANDERSON WILLIAM	BLACKSMITH FORGE	329-P	140		.	1	100	100	238	138
0038	B-2	ARCHER THOMAS	WAGON/SLEIGH FCY	329	50		.	1	200	30	250	220
0038	G	AUSTIN WILLIAM	SHOEMAKER SHOP	174	50000	WATER	160	46	11000	650	1700	1050
0038	G	BARBER JAMES	PAPER MILL	271	2000	WATER	50	2	400	3000	3500	500
0038	G	BARBER JOSEPH	CARDING MACHINE	189-W	2000	WATER	.	10	1400	2000	6000	4000
0038	C	BARCLAY J & CO	TAILOR/MILLINERY	242/249-M	200		.	1	128	400	800	400
0038	A-1	BASTEDO & ALLEN	MILLINERY	249-M	30000	STEAM	15	14	4400	32000	48000	16000
0038	D	BASTEDO JACOB	FURRIER EST	246	800		.	3	250	800	2000	1200
0038	F-2	BEARDMORE GEORGE	TANNERY	172	200		.	1	400	75	600	525
0038	B-4	BEATTY WILLIAM C	CHEESE FACTORY	104	200		.	3	400	400	1000	600
0038	F-3	BELGROVE BENJAMI	WAGON SHOP	329	700	WATER	.	6	500	400	1000	600
0038	E-2	BELL THOMAS	SAW MILL	251	1000		.	3	600	900	1800	900
0038	F-4	BELL THOMAS	BLACKSMITH SHOP	329	600		.	5	1200	1000	3750	2750
0038	A-1	BELL ROBERT	SHOE SHOP	174	200		.	2	400	360	906	546
0038	B-3	BELL THOMAS	WHEELWRIGHT	329	200		.	1	300	100	450	350
0038	G	BENNETT GEORGE F	PHOTOGRAPH GALLE	893	250		.	1	300	500	1000	500
0038	F-3	BENNIE THOMAS	BLACKSMITH SHOP	896	300		.	1	350	200	1500	1300
0038	A-1	BENT JAMES C	CARPENTER SHOP	258/259	4000	WATER	20	4	1500	2500	4800	2300
0038	F-3	BESCUBY EDWARD	SAW MILL	251	3000		.	30	9000	1800	14000	12200
0038	F-3	BESCUBY EDWARD	LIME KILN	358-L	400		.	3	700	1120	2528	1408
0038	D	BEWS & HALCRO	TAILOR ESTABLISH	242	800		.	1	440	1200	2400	1200
0038	D	BOOTH EDMUND	BAKERY ESTABLISH	107	100		.	4	700	2500	3600	1100
0038	B-3	BOWER CHARLES	TAILOR	243	100		.	1	400	240	700	460
0038	B-4	BOWES WILLIAM	CARPENTER SHOP	329/311	3000	STEAM	15	4	1800	6500	10000	3500
0038	E-2	BOWMAN ANN & ALBE	TANNERY	172	6000	STEAM	4	6	2400	7300	20000	12700
0038	F-5	BRAIN & BRO ?	BREWERY	109-B	4000		.	3	650	1760	3000	1240
0038	G	BRICHERHOFF BENJA	BREWERY	109-B	1200	STEAM	18	4	1200	2000	3500	1500
0038	F-5	BROOKS JOHN	SAW MILL	251	10000	STEAM	25	20	6000	6430	22700	16270
0038	D	BROTHERS JOSEPH	IRON FOUNDRY	311	100		.	1	250	250	800	550
0038	F-4	BROWN ROBERT	PUMP SHOP	315-P	500		.	5	1200	400	1900	1500
0038	B-5	BROWN CHARLES	BLACKSMITH/WAGON	329/896	200		.	2	600	100	1200	1100
0038	A-1	BROWN EDWIN	TILE FACTORY	351-B	100		.	1	300	200	628	428
0038	E-1	BUCK WILLIAM	TAILOR SHOP	243	500	WATER	11	5	500	1000	2250	1250
0038	B-2	BUCK JOHN	SAW MILL	251	40		.	1	100	600	800	200
0038	F-1	BULLOCK GEORGE	WEAVER	182-W	20		.	1	36	93	150	57
0038	E-1	BURN WILLIAM	WEAVER	182-W	1000		.	5	1800	2500	2500	2000
0038	G	BURNS THEODOR	PRINTING OFFICE	286	3500		.	8	2000	1500	5000	3500
0038	G	BURNS T H	PRINTING OFFICE	289			.					

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	E-3	BURROWS	WILLIAM	311	226			1	120	150	350	200
0038	A-3	BURTON ROBERT	BLACKSMITH SHOP	329-P	500			2	700	300	1400	1100
0038	G	BUTCHART DAVID	PHOTOGRAPH GALLE	893	400			1	600	200	800	600
0038	D	CALDWELL WILLIAM	SAW MILL	251/251-S	3000	STEAM	20	10	4250	4000	10400	6400
0038	A-3	CALDWELL & WHITE	SAW MILL	251	1650	STEAM	40	14	2500	4000	8000	4000
0038	A-3	CALDWELL & WHITE	SHINGLE FACTORY	251-S	500	STEAM	10	5	300	450	750	300
0038	E-1	CALLAHAN P	WAGONMAKER SHOP	658	300			1	150	113	400	287
0038	G	CAMPBELL ARCHIBA	HARNESMAKER	179-S	250			1	400	300	1000	700
0038	A-2	CAMPBELL JOHN	SAW MILL	251	1000	WATER	20	1	98	250	550	300
0038	E-2	CARGILL HENRY	SAW MILL	251	4000	STEAM	30	11	2200	4000	8000	4000
0038	E-2	CARGILL HENRY	SHINGLE FACTORY	251-S	1500	STEAM	20	5	800	1000	2000	1000
0038	E-1	CARGILL & WHEELSH	SAW MILL	251	4000	STEAM	40	15	3200	10966	18368	7402
0038	D	CAROUQUE WILLIAM	CARRIAGE FACTORY	329	200			2	800	810	1800	990
0038	E-1	CARRADIA MRS D ?	WEAVER	182-W	20			1	15	65	80	15
0038	A-2	CARTWRIGHT FREDER	BLACKSMITH	896	300			2	400	80	800	720
0038	F-5	CASLER ROBERT	BLACKSMITH SHOP	896	200			1	78	60	180	495
0038	D	CENTRE SOCRATE	POTASH FACTORY	378-P/376	300			2	280	400	895	22
0038	E-1	CHISHOLM PETER	WEAVER	182-W	30			1	12	46	68	22
0038	C	CHISHOLM W B & C	FRUIT BASKET MF	256	400			8	600	200	2000	1800
0038	D	CHRISTIE DAVID	MILLINERY EST	249-M/244	100			4	600	500	2000	1500
0038	A-3	CLARKE JAMES	SHINGLE/STAVE FC	251-S/251	1500	STEAM	15	5	800	1600	2300	700
0038	A-3	CLARKE JAMES	BLACKSMITH FORGE	896	200			1	180	60	800	740
0038	A-3	CLARKE JAMES	COOPER SHOP	259-C	300			1	200	750	1000	250
0038	A-3	CLARKE MARY	DRESSMAKER SHOP	244	60			1	1000	54000	4000	4000
0038	A-3	CLEAVER JAMES	FLOUR MILL	105	6000	WATER	30	3	1000	500	1200	700
0038	A-3	CLEAVER JAMES	CHEESE FACTORY	104	100			2	350	500	1000	500
0038	A-1	CLINE A B	TAILOR SHOP	243	500			1	200	20	250	230
0038	B-2	CLIVE HIRAM	BLACKSMITH FORGE	896	30			10	3500	1750	5500	3750
0038	F-2	COATES JOHN B	COOPER SHOP/ASHE	259-C/378-P	600			2	500	2000	3600	1600
0038	A-1	COLE RICHARD	BAKERY	107	500			1	230	60	350	290
0038	B-3	COLTON THOMAS	BOOT/SHOEMAKER	174	50			14	3140	4500	11500	7000
0038	F-5	COOK GEORGE	SAW MILL/SHINGLE	251/251-S	1000	STEAM	16	6	400	500	1000	500
0038	F-5	COOK WILLIAM	SHINGLE FACTORY	251-S	500	WATER	10	1	168	672	1050	378
0038	F-3	COOPER ARCHIBA	SAW MILL	251	1000	WATER	12	6	1500	750	3400	2650
0038	F-3	COOPER ARCHIBA	SHINGLE MILL	251-S	100			1	200	100	300	200
0038	B-2	COULSON WILLIAM	BLACKSMITH FORGE	896	2500	STEAM	25	16	2500	2500	7000	4500
0038	E-2	COX SAMUEL	SAW MILL	251	5000	WATER	15	9	1200	1600	3600	2000
0038	A-2	CRAWFORD GEORGE C	WOOLEN FACTORY	182	2000	HORSE	1	3	800	1500	2400	900
0038	F-4	CROSS DAVID	TANNERY	172	200			1	500	100	800	700
0038	A-1	CROWELL JESSIE	CARPENTER SHOP	421-C	500			2	350	800	1400	600
0038	F-2	CRUCK ROBERT	HARNESMAKER	179-S	400	WATER	11	2	250	700	1500	800
0038	B-2	CULHAIN CHARLES	SAW MILL	251	1200			13	1500	3000	7000	4000
0038	G	CULP & MCKENZI	CARRIAGE FACTORY	329	20			1	10	110	150	40
0038	E-1	CURRIE MRS R	WEAVER	182-W	250			2	150	80	300	220
0038	F-1	CURTIS WILLIAM	ASHERY	378-P	300			1	300	50	400	350
0038	A-3	DARRAGH JAMES	PHOTOGRAPHER/ART	893/862	5500	WATER	25	11	2100	3366	11310	7944
0038	E-1	DAVIDSON BROS	WOOLEN FACTORY	182	3000	WATER	15	70	12000	22000	40000	18000
0038	G	DAYFOOT JOHN B	TANNERY/BOOTS/SH	172/174	40			1	200	1000	1250	250
0038	A-3	DELONG MARGARET	DRESSMAKER ROOMS	244/245	40			1	400	36	500	464
0038	A-3	DENT WILLIAM	CARPENTER SHOP	311/261	40			2	400	600	1200	600
0038	F-2	DICKSON ADAM	TAILOR SHOP	243	150							

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	B-4	DIXON WILLIAM	BLACKSMITH FORGE	896	100			1	400	20	500	480
0038	B-2	DOUGHERLY JAMES	BLACKSMITH FORGE	896	100			1	200	60	300	240
0038	F-1	DRUMMOND PHILIP	TANNERY	172	400	HORSE	1	1	150	120	400	280
0038	A-1	EAGER BENJAMI	SAW MILL	251	3000	STEAM	20	25	8000	10000	20000	10000
0038	D	EDMUNDS EDGAR	BAKERY ESTABLISH	107	300			2	700	1200	1800	600
0038	E-3	EDWARDS JOHN	WAGON SHOP	329	250			1	300	130	500	370
0038	F-1	ELLIOTT JOHN	SAW MILL	251	400	WATER	20	1	200	900	1260	360
0038	B-2	ELLIOTT GEORGE	SHOE SHOP	174	100			1	200	25	250	225
0038	B-4	EMMETT STEPHEN	WEAVER	182-W	20			1	90	180	300	120
0038	F-3	FARQUAR JAMES	LIME KILN	358-L	2500			16	6200	2160	12960	10800
0038	B-3	FLYN GILBERT	SHOE/BOOTMAKER	174	100			2	200	100	400	300
0038	F-3	FORD ROBERT	BLACKSMITH FORGE	896	200			1	400	100	600	500
0038	F-4	FOSTER CHARLES	BROOM FACTORY	399-B	1000			6	2000	200	480	280
0038	F-3	FOSTER THOMAS	LIME KILN	358-L	50			2	250	60	625	565
0038	B-3	FOSTER JOSEPH	BLACKSMITH	329/896	200			2	500	125	700	575
0038	A-1	FRASER D	SAW MILL	251	2500	STEAM	25	9	1900	6000	10000	4000
0038	A-3	FREEMAN HARRIET	DRESSMAKER SHOP	244	30			1	200	750	1000	250
0038	B-5	FULLERTON JAMES	WEAVER ESTABLISH	182-W	350			1	250	250	780	530
0038	F-4	GALLOP ELI	SADDLER	179-S	20			0				
0038	A-3	GASTLE WILLIAM	BLACKSMITH FORGE	896	50			1	400	50	510	460
0038	E-2	GILLIES DUNCAN	CHEESE FACTORY	104	275			2	200	600	850	250
0038	A-3	GILMER WILLIAM	CARRIAGE/WAGON S	329	1000	STEAM	8	4	1600	1500	4000	2500
0038	E-2	GLASS THOMAS	SADDLER SHOP	179-S	400			3	800	1600	3000	1400
0038	E-1	GOLLAHER MRS THO	WEAVER	182-W	20			1	12	20	42	22
0038	F-1	GOODWILLIE JAMES	SHINGLE FACTORY	251-S	3000	STEAM	25	13	3000	1500	5000	3500
0038	F-5	GOUDY & STEWARD	SAW MILL	251	25000	STEAM	25	18	8000	16000	21000	5000
0038	G	GRAND TRUNK CO	BLACKSMITH SHOP	326	400			4	1508	800	2600	1800
0038	F-2	GRANT ALEX	SHOEMAKER SHOP	329	200			1	350	70	650	580
0038	F-2	GRANT WILLIAM	WAGON SHOP	329	300			2	400	150	800	650
0038	G	GREAVES ALEX	BLACKSMITH SHOP	311	200			2	400	400	1000	600
0038	A-3	GREENLEES GEORGE	BLACKSMITH FORGE	896	30			1	300	12	350	338
0038	A-3	GREENLEES JOHN A	BLACKSMITH FORGE	896	200			2	400	300	1000	700
0038	B-1	GREENY ALVIRA	WEAVER	182-W	20			1	200	75	450	375
0038	A-3	GREER JAMES	WAGON/PAINT SHOP	329	700			3	700	1000	2600	1600
0038	C	GULLIDGE HENRY	SADDLER/HARNESM	179-S	1000			4	1800	1500	3500	2000
0038	G	GUTHRIE ROBERT	TAILOR SHOP	242	200			4	960	1400	3600	2200
0038	E-1	HADDIN ROBERT	SAW MILL	251/251-S	2000	STEAM	16	7	1200	2600	5925	3325
0038	C	HAGAMAN JEREMIA	CARRIAGE/WAGON F	329	6000	STEAM	6	12	3000	2500	7500	5000
0038	C	HAGAMAN W E	TAILOR	243	2000			8	1560	4000	6500	2500
0038	B-3	HAGMAN & CO	CHEESE FACTORY	104	600			2	200	2200	2690	490
0038	A-1	HALES CHARLES	GRIST MILL	105	17000	STEAM	25	4	1360	57500	79200	21700
0038	A-1	HALES JOSEPH	MILLINERY	249-M/244	600			1	200	900	1200	300
0038	A-3	HAMILTON POWDER C	GRIST/FLOUR MILL	105	5000	WATER	30	2	750	40000	48500	8500
0038	A-3	HAMILTON POWDER C	COOPER SP/STAVE	259-C	2000	STEAM	30	8	1000	260	2500	2240
0038	A-3	HAMILTON POWDER C	POWDER FACTORY	379-P	24000	W/S	116	13	4000	26400	60000	33600
0038	A-3	HAMILTON POWDER C	COAL KILN	379-H	3500			1	500	1000	2400	1400
0038	G	HANHAM EDWIN	CARRIAGE SHOP	329	1500			2	1000	1000	2500	1500
0038	F-2	HANNAH JOHN	BAKERY	107				2	350	1400	2000	600
0038	G	HARLEY JOHN	BLACKSMITH SHOP	329	100			1	450	200	1200	1000
0038	F-4	HARPER ROBERT	BLACKSMITH SHOP	896	200			1	500	600	1800	1200
0038	A-1	HARRISON THOMAS	WAGON SHOP	329	2000			6	1300	580	2500	1920

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	D	HAWTHORNE ROBERT	CARRIAGE/WAGON	F 329	5000	HORSE	2	11	4400	3000	10000	7000
0038	A-1	HAYGARTH THOMAS	BLACKSMITH SHOP	896	.	.	.	3	800	200	1000	800
0038	D	HENDERSON THOMAS	CARPENTER SHOP	421-C	300	.	.	2	800	200	1300	1100
0038	E-1	HENTON ANTHONY	SAW MILL	251	250	WATER	8	2	50	50	225	175
0038	F-4	HEWSON THOMAS	SADDLER SHOP	179-S	.	.	.	2	400	600	1200	600
0038	G	HILLOCK JOHN	TANNERY	172	2000	STEAM	12	4	1000	4000	7000	3000
0038	B-3	HIXON	SAW MILL	251	2000	WATER	20	2	46	120	240	120
0038	D	HOLLINRAKE JAMES	TAILOR ESTABLISH	243	800	.	.	6	750	750	1872	1122
0038	F-4	HOLMES JOHN	BLACKSMITH SHOP	896	200	.	.	1	480	280	1000	720
0038	F-4	HOOD WILLIAM	BLACKSMITH SHOP	896	400	.	.	1	450	400	1000	600
0038	B-5	HOWARD THOMAS	WEAVER ESTABLISH	182-W	300	.	.	1	140	200	550	350
0038	C	HOWES JOSEPH	PHOTOGRAPHIC GAL	893	400	.	.	1	400	200	1000	800
0038	E-1	HUBBARD MICHAEL	SHOE SHOP	174	250	.	.	2	300	250	750	500
0038	F-1	HUME THOMAS	SAW MILL	251	400	WATER	20	1	120	400	600	200
0038	F-4	HUNT JOHN	TURNING SHOP	259-W	2000	WATER	30	9	2500	2100	6500	4400
0038	F-3	HURST RICHARD	WOOLEN FACTORY	182	1800	WATER	15	11	2400	12480	15680	3200
0038	F-5	IRVIN JOHN	SHINGLE FACTORY	251-S	1500	STEAM	12	6	1400	2300	4500	2200
0038	F-4	JACKSON WILLIAM	SHOE SHOP	174	200	.	.	1	400	250	1000	750
0038	E-1	JOB MRS WM	WEAVER	182-W	20	.	.	1	10	37	105	68
0038	C	JOHNSON ADAM	BOOT/SHOE EST	174	300	.	.	1	400	100	800	700
0038	C	JOHNSON ROBERT	BASKET FACTORY	256	600	.	.	7	800	100	1200	1100
0038	F-4	JOHNSON & WILSON	SHINGLE FACTORY	251-S	1400	WATER	.	4	650	1000	2000	1000
0038	F-3	JOHNSTON ROBERT	SHINGLE MILL	251-S	2000	STEAM	20	8	1596	800	2560	1760
0038	D	JONES BENJAMI	CABINET EST	261	200	.	.	1	500	120	800	680
0038	D	JONES RICHARD	HARNES EST	179-S	.	.	.	2	760	200	1250	1050
0038	B-3	JONES CHARLES	WINDOW FASTENER	306	100	.	.	4	1060	200	1600	1400
0038	B-3	KEACH & BROS & CO	TAILOR MANUFACTO	243	300	.	.	2	575	600	1500	900
0038	E-2	KEAN ALEXAND	CARRIAGEMAKER SH	329	200	.	.	1	200	50	300	250
0038	E-2	KEAN HUGH	BLACKSMITH FORGE	896	200	.	.	2	300	100	500	400
0038	E-3	KEAN JOSIAH	BLACKSMITH FORGE	329-P	500	.	.	2	450	323	1100	777
0038	F-4	KENNEDY GEORGE	SAW MILL	251	2500	WATER	20	6	1200	1600	3500	1900
0038	F-4	KERR WILLIAM	TIN SHOP	304-T	200	.	.	1	200	.	.	.
0038	C	KILNER CHARLES	PHOTOGRAPHIC GAL	893	250	.	.	1	400	100	600	500
0038	E-2	KING WILLIAM	WEAVER SHOP	182-W	60	.	.	1	160	400	1000	600
0038	B-5	KING SAMUEL	BLACKSMITH SHOP	896	500	.	.	2	600	120	900	780
0038	A-3	KING THOMAS	SHINGLE FACTORY	251-S	2000	STEAM	15	10	3000	2000	6500	4500
0038	A-3	KLEINKE ANDREW	TAILOR SHOP	243	50	.	.	2	320	350	750	400
0038	F-1	LAIDLAW JOHN	PLANING MACHINE	311/254	1300	STEAM	8	2	800	66	900	834
0038	A-1	LAND HIRAM	PUMPMAKER	315-P	100	.	.	1	200	200	800	600
0038	B-3	LAWRANCE & SONS	IRON FNDRY/AGRC	311	9000	STEAM	20	21	8000	2910	17690	14690
0038	F-4	LAWSON HENRY	SAW MILL	251	3000	WATER	35	6	1800	3000	7000	4000
0038	A-3	LEE GEORGE	TANNERY	172	500	HORSE	1	2	500	1200	2500	1300
0038	F-3	LESLIE JOHN	BRICK KILN	351-B	300	HORSE	1	4	500	50	1200	1150
0038	A-3	LESLIE THOMAS	TAILOR SHOP	243	200	.	.	3	1000	3200	4450	1250
0038	E-1	LIDDLE JOHN	TURNING SHOP	261	100	WATER	3	1	200	60	250	190
0038	A-3	LIDDLE DAVID	WOOD TURNER SHOP	259-W	200	WATER	3	1	150	10	200	190
0038	D	LINDSAY JAMES	STAVE FACTORY	251	1100	STEAM	12	8	700	700	1300	600
0038	D	LINDSAY JAMES	COOPER SHOP	259-C	.	.	.	3	300	400	900	500
0038	F-3	LITT JAMES	LIME KILN	358-L	100	.	.	1	160	20	250	230
0038	F-4	LITTLE ARTHUR	SHOE SHOP	174	500	.	.	2	800	500	1500	1000
0038	D	LITTLE DAVID	TAILOR	243	250	.	.	2	600	250	1248	998

HALTON COUNTY: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	D	LITTLE WILLIAM	HARNES EST	179-S	70			3	900	1200	2320	1120
0038	B-4	LITTLE & PAINE	BLACKSMITH FORGE	896	400			3	1280	280	2000	1720
0038	D	LOWERY JOSEPH	WAGON FACTORY	329	100			2	980	600	1750	1150
0038	F-3	LYNDEN JOHN	LIME KILN	358-L	400			3	1500	300	2250	1950
0038	D	LYONS WILLIAM	TAILOR ESTABLISH	243	600			7	2000	3500	6500	3000
0038	D	MACKAY PETER M	SHOEMAKER EST	174	300			1	480	100	800	700
0038	F-2	MALONEY DAVID	SHOE SHOP	174	100			1	350	300	960	660
0038	F-2	MARSHALL THOMAS	SHOEMAKER SHOP	174	50			1	250	146	487	341
0038	B-3	MARSHALL JOHN	CHEESE MANUFACTO	104	3000			5	200	1500	1800	300
0038	D	MATHESON & KEELIN	PRINTING OFFICE	289	3000			8	2000	725	4000	3275
0038	D	MATHESON & KEELIN	PRINTING OFFICE	289	2000			7	2500	2000	6000	4000
0038	B-4	MCCANN LOGAN	WOOLEN FACTORY	182	3500	WATER	10	6	1000	4250	7880	3630
0038	C	MCCAULY WILLIAM	SAW MILL	251/251-S	15000	STEAM	25	11	4500	5200	11000	5800
0038	F-4	MCCONNELL GEORGE	POTTER	351-P	200			1	400	200	1200	1000
0038	B-3	MCCRANEY M J	TAILOR	243	200			2	450	1500	1060	-440
0038	B-3	MCCRANEY M J	BOOT/SHOEMAKER	174	200			2	450	600	3000	2400
0038	D	MCDERMOTT PATRICK	TINWARE EST	304-T	1300			1	540	400	1200	800
0038	F-1	MCDONALD HUGH	BLACKSMITH	311	400			2	600	190	900	710
0038	E-1	MCGIBBON FINLAY	SAW MILL	251	4000	W/S	55	15	2000	6600	9000	2400
0038	A-2	MCGOWAN & SMYTH	WAGON/BLACKSMITH	329	800	HORSE	2	4	600	660	1400	740
0038	A-3	MCGREGOR DONALD	SAW MILL/SHINGLE	251/251-S	2000	WATER	8	4	500	800	1460	660
0038	A-3	MCGREGOR WILLIAM	DENTIST	391	50			1	400	100	600	500
0038	A-3	MCINTOSH DONALD	TAILOR SHOP	243	100			3	550	1000	1800	800
0038	C	MCKAY W	PRINTING OFFICE	289	3000			4	900	300	2400	2100
0038	G	MCKENZIE GEORGE C	FOUNDRY	311	5000	STEAM	18	10	2000	950	3000	2050
0038	B-3	MCKENZIE JOHN	BLACKSMITH	311/896	250			3	900	240	1196	956
0038	G	MCKINNON DONALD	BLACKSMITH SHOP	311	1400			6	1800	2120	4800	2680
0038	G	MCKINNON SIDNEY F	CLOTHING/MILLINE	242/249-M	2000			15	3500	4000	9000	5000
0038	F-1	MCLEOD ANDERSON	SHOEMAKER	174	30			1	150	200	400	200
0038	G	MCLEOD ANDERSON & MILLINERY/MANTLE	249-M/244	1000	1000			21	4000	9000	20000	11000
0038	F-3	MCMURCHY THOMAS	TURNING SHOP	259-W	200	WATER	2	1	300	84	500	416
0038	A-3	MCNAB & PARKER	TAILOR SHOP	243	500			8	2500	5000	12000	7000
0038	A-3	MCNAB & PARKER	MILLINER SHOP	249-M	150			3	350	4000	5000	1000
0038	A-3	MCNAB & PARKER	SADDLER/HARNES	179-S	250			3	1000	1550	3550	2000
0038	A-3	MCNAIR GEORGE	BLACKSMITH FORGE	329-P	200			4	800	600	2500	1900
0038	E-2	MEADE ROBERT	SHOEMAKER SHOP	174	1000			2	400	300	1000	700
0038	E-1	MENZIES JAMES	BLACKSMITH SHOP	896	300			3	700	760	2000	1240
0038	D	MERLINET JOHN	TINSMITH EST	304-T	300			3	900	270	1200	930
0038	F-2	MILLBURN THOMAS	PATENT MEDICINE	374	1300			6	1600	6000	9500	3500
0038	E-1	MILLER GAVIN	WEAVER	182-W	50			2	100	800	1000	200
0038	F-5	MILLER ROBERT	SAW MILL	251	2000	WATER		2	30	50	90	40
0038	F-5	MILLER ROBERT	CHEESE FACTORY	104	300			3	200	105	250	145
0038	A-3	MILLS FRANCIS	TIN SHOP	304-T	500			2	550	120	800	680
0038	F-4	MITCHELL PETER	COOPER SHOP	259-C	400			2	650	600	1500	900
0038	E-1	MITCHELL JOSEPH	LIME KILN	358-L	40			1	40	32	131	99
0038	E-2	MOFFAT JAMES	BLACKSMITH SHOP	896	400			3	600	200	1000	800
0038	A-3	MONTGOMERY WM P	CARDING/CLOTH FC	189-W/182	2000	W/S	24	4	600	1330	2650	1320
0038	F-2	MOORE & BROS	SHINGLE FACTORY	251-S	2000	STEAM	20	4	1000	900	2200	1300
0038	C	MOORE JOHN & C	TINSMITH	304-T	2500			2	700	3000	5000	2000
0038	F-5	MORRISON JAMES	SHINGLE MANUFACT	251-S	1200	STEAM	12	7	300	450	1300	850
0038	F-3	NEWTON JOHN	SAW MILL	251	1000	WATER	5	2	180	500	875	375

HALTON COUNTY: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	F-3	NEWTON	JOHN	182	3000	WATER	5	7	2256	3000	8000	5000
0038	F-2	NICKLIN	B W	105	6000	W/S	25	2	1000	20000	25000	5000
0038	D	NIEHAUS	F W	174	1700		.	4	1000	3000	5000	2000
0038	F-4	NIXON	EDWARD	179-S	1000		.	2	800	1000	2000	1000
0038	F-4	NOBLE	ROBERT	105	10000	WATER	50	5	1800	90000	95000	5000
0038	F-4	NOBLE	ROBERT	251	1000	WATER	.	2	600	3125	5000	1875
0038	F-4	NOBLE	ROBERT	259-C	1200		.	4	2000	1500	5000	3500
0038	F-4	NOBLE	ROBERT	259-C	400		.	6	1400	1200	3000	1800
0038	A-1	OGG	NELSON	259-C	200		.	1	300	300	1540	1240
0038	A-1	OGG	WILLIAM	300	300		.	1	250	140	500	360
0038	B-1	OGLEROD	STEPHEN ?	896	6000		.	10	3600	3000	8500	5500
0038	G	OGG	EDWARD	353	2000	STEAM	18	9	1500	1500	3800	2300
0038	C	OGG	HENRY	251-S	2500		.	5	1500	2000	4000	2000
0038	F-1	PATERSON	SCOTT	174	40		.	1	100	500	600	100
0038	C	PATERSON	THOMAS	182-W	600		.	6	936	1500	2600	1100
0038	A-2	PATTON	JOHN A	249-M/244	100		.	2	400	600	1300	700
0038	A-3	PEART	JOHN	174	100		.	2	400	500	1000	700
0038	A-3	PEMBROKE	JOHN B	174	150		.	2	600	850	2400	1550
0038	F-5	PICKARD	WILLIAM	104	600		.	2	250	540	1089	549
0038	E-2	PLAYER	WILLIAM	242	100		.	2	300	600	1000	400
0038	B-3	RAMBOUGH	WILLIAM	174	200		.	2	412	300	1000	700
0038	D	RAMNENT	SOLOMON	105	2000	WATER	30	2	940	15000	19000	4000
0038	E-3	RAMSHAW	G & R	329-P	535		.	2	800	385	1600	1215
0038	E-3	RAMSHAW	JAMES	329	675		.	1	275	175	600	425
0038	A-3	READHEAD	JOHN	251	1500	STEAM	20	5	1700	4500	7000	2500
0038	A-3	READHEAD	JOHN	251-S	800	STEAM	16	5	650	.	75	55
0038	E-2	REDING	RICHARD	358-L	50		.	1	24	20	4500	3000
0038	C	REYNOLDS	THOMAS	174	2000		.	5	1560	1500	4500	600
0038	A-2	RICHARDSON	WILLIA	243	400		.	1	400	750	1350	1000
0038	F-1	ROBERTSON	DUNCAN	358-L	400		.	2	600	150	1150	350
0038	F-1	ROPER	JOHN P	251	800	WATER	20	2	150	400	750	1000
0038	G	ROSE	LAWRENC	105	6000	WATER	40	6	1800	100000	106200	6200
0038	F-4	ROSS	JOHN	182	12000	WATER	20	18	6000	15000	25000	10000
0038	B-3	ROW MARY	JOHN	182-W	12		.	1	250	600	1300	700
0038	F-2	RUDDLE	MARGARE	182-W	25		.	1	140	180	400	220
0038	G	RUE	JOHN	243	200		.	2	500	700	1600	900
0038	A-3	RUMPLE	ELIZA ANN	261	600	WATER	8	2	650	200	1000	800
0038	A-3	RUMPLE	FREDERICK	261	200		.	2	450	190	1500	1310
0038	F-2	RYDER	JAMES	896	400		.	2	800	640	2000	1360
0038	B-5	SANDERS	JOHN	896	500		.	1	450	300	1300	1000
0038	F-1	SAWYER	PETER	251-S	2600	STEAM	16	6	960	1000	3000	2000
0038	B-5	SHAND JAMES	DAVID	329/896	1000	STEAM	2	2	800	300	1800	1500
0038	E-3	SHANNON	JOSEPH	315-P	50		.	1	100	17	140	123
0038	A-3	SHANNON	JOSEPH	315-P	300		.	1	400	100	600	500
0038	F-1	SHARP	WILLIAM & C	251	15000	STEAM	35	21	8000	6000	20000	14000
0038	A-3	SHARPE	THOMAS	182-W	50		.	2	200	50	325	275
0038	G	SHAW	WILLIAM	274	4000	WATER	8	5	2280	10000	13000	3000
0038	F-1	SHORTREED	THOMAS	251	2000	STEAM	35	18	5000	4500	11000	6500
0038	A-3	SUERT NELSON ?	BLACKSMITH	896	50		.	1	400	100	520	420
0038	A-3	SMALL FRANCIS	SAW MILL	251	500	WATER	10	2	150	1000	1200	200
0038	F-2	SMITH	CHARLES	251-S/251	2000	STEAM	16	4	250	300	750	450

HALTON COUNTY: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	F-4	SMITH	THOMAS	399-B	500			3	1200	2100	4500	2400
0038	F-3	SMITH &	BROOM FACTORY	251-S	1200	STEAM	20	5	600	750	2600	1850
0038	C	SMITH & THOMPSON	SHINGLE MILL	172	17000	STEAM	10	18	6000	14500	20559	6059
0038	C	SMITH & THOMPSON	FOUNDRY/MACHINE	329-P	30000	STEAM	20	40	15000	18000	40000	22000
0038	B-3	SMITH HANNAH	DRESSMAKER	244/243	20			2	200	100	400	300
0038	F-4	SPARROW	SADDLER SHOP	179-S				2	600	700	2000	1300
0038	F-2	SPEIGHT	WAGON FACTORY	329	1000	WATER	7	3	600	300	1570	1270
0038	F-2	SPEIGHT	SAW MILL	251	300	WATER	12	1	52	200	300	100
0038	F-2	SPEIGHT	BLACKSMITH SHOP	329	500			4	1500	600	3000	2400
0038	A-3	SPRINGER DANIEL	TURNING LATHE	259-W	600	WATER	8	1	60	10	800	790
0038	F-2	STAFFOR	LIME KILN	358-L	40			2	52	50	150	100
0038	G	STATHAM	TIN SHOP	304-T	3500			2	750	1800	5400	3600
0038	G	STATHAM	BAKERY	107	400			2	820	3020	4368	1348
0038	F-2	STEPHENSON WILLIAM	BLACKSMITH SHOP	311	1500	WATER	10	3	600	500	1600	1100
0038	A-1	STEWART CHARLES	BLACKSMITH SHOP	896	300			2	450	310	1200	890
0038	B-4	STOREY J & A	CHEESE FACTORY	104	200			2	250	720	1440	720
0038	F-2	STORY	WILLIAM CANADIAN GLOVE W	175				10	2750	3900	9000	5100
0038	E-2	STURJEL	HENRY ? CABINETMAKER SHO	261	300			1	250	75	325	250
0038	F-1	SYMONS	CHARLES SAW MILL	251	10000	STEAM	18	17	4000	5250	12700	7450
0038	C	TAIT	CABINETWARE MF	261/258	600			2	1200	500	2500	2000
0038	C	TAYLOR	SADDLER/HARNESSM	179-S	500			2	620	1400	2500	1100
0038	D	TAYLOR	TANNERY	172	2500	STEAM	10	3	1800	5000	12000	7000
0038	E-3	TAYLOR JOHN F	WEAVER SHOP	182-W	100			1	250	225	750	525
0038	B-1	TAYLOR MARY	HARNESS SHOP	179-S/179-T	100			3	900	1500	4000	2500
0038	B-5	TAYLOR WILLIAM	WEAVER	329/311	65			2	60	87	225	138
0038	G	THAYER	CABINET SHOP	261	200			1	400	300	900	600
0038	E-3	THOMAS	BLACKSMITH FORGE	896	100			1	300	120	500	380
0038	A-3	THOMPSON ROBERT	GRIST/FLOUR MILL	105	300	WATER	20	1	100	20	140	120
0038	A-3	THOMPSON ROBERT	SHOEMAKER SHOP	174	3500			3	500	13600	20700	7100
0038	A-3	THOMPSON ROBERT	MILLINER ROOMS	249-M	100			1	700	900	2100	1200
0038	E-1	THOMPSON SMITH &	SAW MILL	251	650			1	280	2000	2800	800
0038	C	TILLER	CABINET MANUFACT	261	5000	STEAM	70	28	5000	3500	18900	15400
0038	F-4	TOAST	BLACKSMITH SHOP	896	2000			2	950	2000	4500	2500
0038	F-2	TOLTON	GRIST MILL	105	100	WATER	20	1	400	250	1200	950
0038	C	TROTT J B & C	TINSMITH	304-T	6000			4	1600	25992	31000	5008
0038	A-2	TULL ALFRED H	BLACKSMITH	896	2000			2	1040	1500	3500	2000
0038	F-3	TWEDDLE JOSEPH	SAW MILL	251	200	WATER	12	1	400	120	500	380
0038	F-2	VANALLEN CHARLES	TAILOR SHOP	243	600			2	300	400	1000	600
0038	A-3	VANCE & MCCAY	TANNERY	172	300	WATER	10	3	400	600	1500	900
0038	D	WALDIE JAMES	BLACKSMITH	896	600			3	900	3000	4500	1500
0038	A-1	WALDIE J & CO	TAILOR/MILLINERY	242/249-M	200			3	1000	1500	3000	1500
0038	E-2	WALLACE	SHOEMAKER SHOP	174	40			2	600	100	700	600
0038	C	WALSH	GRIST/FLOUR MILL	105	1500	WATER	40	3	1200	1000	2600	1600
0038	C	WARCUP	WEAVER	182-W	4000			3	1200	1000	3000	2000
0038	B-3	WARDEN ELIZABETH	BLACKSMITH SHOP	896	12			2	100	300	500	200
0038	F-4	WATSON ROBERT	WAGON SHOP	329	450			1	400	250	1200	950
0038	F-4	WATSON WILLIAM	BLACKSMITH SHOP	896	140			2	400	50	600	550
0038	A-2	WATSON THOMAS	BLACKSMITH SHOP	896	200			2	500	150	950	800
0038	A-1	WATTS THOMAS	HARNESSMAKER	179-S	800			2	600	300	1350	1050
0038	B-4	WAUGH CHARLES	BLACKSMITH FORGE	896	300			2	600	210	1000	790

HALTON COUNTY: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUNRAWC	SUMPROC	VADD
0038	F-2	WEIGER	CHARLES	304-T	200			1	250	33	350	317
0038	G	WHITE	ENVELOPE	274	4000	WATER	4	11	2200	8100	15000	6900
0038	E-3	WHITE	WEAVER SHOP	182-W	23			1	100	150	375	225
0038	F-4	WHITNEY	TURNING SHOP	259-W	400	WATER	15	2	550	420	1200	780
0038	F-4	WILLIAMS	SAW MILL	251	3000	WATER	30	5	1500	3000	6000	3000
0038	F-4	WILLIAMS	WOOLEN FACTORY	182	12000	WATER	20	17	3900	6600	14000	7400
0038	F-4	WILLIAMS	TURNING SHOP	259-W	600	WATER		3	450	220	1200	980
0038	F-4	WILLIAMS	GRIST/FLOUR MILL	105	6000	WATER	35	1	450	20000	22000	2000
0038	C	WILLIAMS	CLOTHING MANUFAC	243	2000			7	1090	3000	6500	3500
0038	B-4	WILLIAMS	CHEESE FACTORY	104	1000			3	500	3594	5840	2246
0038	B-4	WILLIAMS	SAW MILL	251	2000	WATER	30	15	3000	3600	7372	3772
0038	E-1	WILLMOTT & HALTON	FLOUR/GRIST MILL	105			8	3	600	6000	8075	2075
0038	A-1	WILSON ALEXANDER	TAILOR SHOP	243	400			2	600	1000	2000	1000
0038	A-2	WILSON JAMES	SAW MILL/SHINGLE	251/251-S	2000	STEAM	16	5	650	1000	1800	800
0038	G	WILSON JOHN G	CABINET SHOP	261	500	WATER	4	4	900	100	1200	1100
0038	C	WOOD RICHARD SHAW	PLANING M/BLIND	254	6000	STEAM	16	14	3500	3000	9594	6594
0038	A-3	WORTHINGTON JOSHU	WAGONMAKER SHOP	329	400			2	450	100	950	850
0038	B-3	WRIGHT JOSEPH	WEAVER	182-W	40			4	250	600	1300	700
0038	E-3	YOUNG	CRADLE FACTORY	306	90			1	100	52	180	128
0038	C	YOUNG	CABINET MANUFAC	261	1000			3	1800	1000	5000	4000
0038	A-1	ZIMMERMAN & SON	SAW MILL	251	3000	STEAM	35	5	1600	4500	9000	4500
0038	A-2	ZIMMERMAN H P	SAW MILL	251	5000	WATER	40	4	1000	2000	3600	1600
0038	A-2	ZIMMERMAN H P	BLACKSMITH SHOP	896	500			2	420	100	1000	900
0038	A-2	ZIMMERMAN H P	SHINGLE MILL	251-S	1000	WATER	40	2	500	500	1750	1250
0038	A-2	ZIMMERMAN HUGH P	FLOUR MILL	105	6000	WATER	30	1	500	14000	16000	2000
0038	A-2	ZIMMERMAN JOHNSON	DENTIST	391	300			1	600	120	1000	880
					=====		2527	1669	=====	=====	=====	=====
					684383				420871	1110655	1944074	833419

Table A-7: Urban Centres: Firms by Name of Proprietor, 1871

GEORGETOWN VILLAGE: ALL ESTABLISHMENTS BY PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	G	ALLAN	JAMES	107	500		.	2	800	2500	4500	2000
0038	G	ALLEN	WILLIAM	174	100		.	1	400	600	1000	400
0038	G	ANDERSON	ROBERT	421-C	400		.	2	350	230	600	370
0038	G	AUSTIN	WILLIAM	174			.	4	1000	650	1700	1050
0038	G	BARBER	JAMES	271	50000	WATER	160	46	11000	64000	90000	26000
0038	G	BARBER	JOSEPH	189-W	2000	WATER	50	2	400	3000	3500	500
0038	G	BENNET	GEORGE F	893	200		.	1	300	100	450	350
0038	G	BRICHERHOFF	BENJA	109-B	4000		.	3	650	1760	3000	1240
0038	G	BURNS	THEODOR	286	1000		.	5	1800	500	2500	2000
0038	G	BURNS	T H	289	3500		.	8	2000	1500	5000	3500
0038	G	BUTCHART	DAVID	893	400		.	1	600	200	800	600
0038	G	CAMPBELL	ARCHIBA	179-S	250		.	1	400	300	1000	700
0038	G	CULP & MCKENZIE	CARRIAGE FACTORY	329	1200		.	13	1500	3000	7000	4000
0038	G	DAYFOOT	JOHN B	172/174	3000	WATER	15	70	12000	22000	40000	18000
0038	G	GRAND TRUNK CO	BLACKSMITH SHOP	326	400		.	4	1508	800	2600	1800
0038	G	GREAVES	ALEX	311	200		.	2	400	400	1000	600
0038	G	GUTHRIE	ROBERT	242	200		.	4	960	1400	3600	2200
0038	G	HANHAM	EDWIN	329	1500		.	2	1000	1000	2500	1500
0038	G	HARLEY	JOHN	329	100		.	1	450	200	1200	1000
0038	G	HILLOCK	JOHN	172	2000	STEAM	12	4	1000	4000	7000	3000
0038	G	MCKENZIE	GEORGE C	311	5000	STEAM	18	10	2000	950	3000	2050
0038	G	MCKINNON	DONALD	311	1400		.	6	1800	2120	4800	2680
0038	G	MCKINNON	SIDNEY F	242/249-M	2000		.	15	3500	4000	9000	5000
0038	G	MCLEOD	ANDERSON & MILLINERY/MANTLE	249-M/244	1000		.	21	4000	9000	20000	11000
0038	G	ORR	EDWARD	353	6000		.	10	3600	3000	8500	5500
0038	G	ORR	HENRY	251-S	2000	STEAM	18	9	1500	1500	3800	2300
0038	G	ROSE	LAWRENC	105	6000	WATER	40	6	1800	100000	106200	6200
0038	G	RUE	JOHN	243	200		.	2	500	700	1600	900
0038	G	SHAW	WILLIAM	274	4000	WATER	8	5	2280	10000	13000	3000
0038	G	STATHAM	SILAS	304-T	3500		.	2	750	1800	5400	3600
0038	G	STATHAM	THOMAS	107	400		.	2	820	3020	4368	1348
0038	G	TAYLOR	JOHN F	179-S/179-T	100		.	3	900	1500	4000	2500
0038	G	THAYER	CHARLES	261	100		.	1	300	120	500	380
0038	G	WHITE	EBENEZE	274	4000	WATER	4	11	2200	8100	15000	6900
0038	G	WILSON	JOHN G	261	500	WATER	4	4	900	100	1200	1100
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										107150	379318	125268
										=====	=====	=====
										329	283	65368

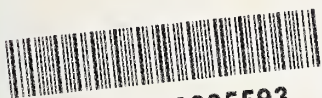
MILTON TOWN: ALL ESTABLISHMENTS BY PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	D	ANDERSEN	WILLIAM	174	100		.	1	200	200	600	400
0038	D	BASTEDO	JACOB	246	.		.	3	400	300	800	500
0038	D	BOWS &	TAILOR ESTABLISH	242	.		.	3	700	1120	2528	1408
0038	D	BOOTH	EDMUND	107	400		.	1	440	1200	2400	1200
0038	D	BROTHERS	JOSEPH	311	10000	STEAM	25	20	6000	6430	22700	16270
0038	D	CALDWELL	WILLIAM	251/251-S	3000	STEAM	20	10	4250	4000	10400	6400
0038	D	CAROUQUE	WILLIAM	329	200		.	2	800	810	1800	990
0038	D	CENTRE	SOCRATE	378-P/376	300		.	2	280	400	895	495
0038	D	CHRISTIE	DAVID	249-M/244	100		.	4	600	500	2000	1500
0038	D	EDMUNDS	EDGAR	107	300		.	2	700	1200	1800	600
0038	D	HAWTHORNE	ROBERT	329	5000	HORSE	2	11	4400	3000	10000	7000
0038	D	HENDERSON	THOMAS	421-C	300		.	2	800	200	1300	1100
0038	D	HOLLINRAKE	JAMES	243	800		.	1	750	750	1872	1122
0038	D	JONES	BENJAMI	261	200		.	6	500	120	800	680
0038	D	JONES	RICHARD	179-S	.		.	2	760	200	1250	1050
0038	D	LINDSAY	JAMES	251	1100	STEAM	12	8	700	700	1300	600
0038	D	LINDSAY	JAMES	259-C	.		.	3	300	400	900	500
0038	D	LITTLE	DAVID	243	250		.	2	600	250	1248	998
0038	D	LITTLE	WILLIAM	179-S	70		.	3	900	1200	2320	1120
0038	D	LOWERY	JOSEPH	329	100		.	2	980	600	1750	1150
0038	D	LYONS	WILLIAM	243	600		.	7	2000	3500	6500	3000
0038	D	MACKAY	PETER M	174	300		.	1	480	100	800	700
0038	D	MATHESON & KEELIN	PRINTING OFFICE	289	3000		.	8	2000	725	4000	3275
0038	D	MCDERMOTT	PATRICK	304-T	2000		.	7	2500	2000	6000	4000
0038	D	MERLINET	JOHN	304-T	1300		.	1	540	400	1200	800
0038	D	NIEHAUS	F W	174	1700		.	3	900	270	1200	930
0038	D	RAMNENT	SOLOMON	105	20000	WATER	30	2	1000	3000	5000	2000
0038	D	TAYLOR	SAMUEL	172	2500	STEAM	10	3	940	15000	19000	4000
0038	D	WALDIE	JAMES	896	800		.	3	1800	5000	12000	7000
					=====		=====		=====	=====	=====	=====
					54420		99	127	38120	53925	125863	71938

OAKVILLE TOWN: ALL ESTABLISHMENTS BY PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0038	C	BARCLAY J & CO	TAILOR/MILLINERY	242/249-M	2000		.	10	1400	2000	6000	4000
0038	C	CHISHOLM W B & C	FRUIT BASKET MF	256	400		.	8	600	200	2000	1800
0038	C	GULLIDGE HENRY	SADDLER/HARNESSM	179-S	1000		.	4	1800	1500	3500	2000
0038	C	HAGAMAN JEREMIA	CARRIAGE/WAGON F	329	6000	STEAM	6	12	3000	2500	7500	5000
0038	C	HAGAMAN W E	TAILOR	243	2000		.	8	1560	4000	6500	2500
0038	C	HOWES JOSEPH	PHOTOGRAPHIC GAL	893	400		.	1	400	200	1000	800
0038	C	JOHNSON ADAM	BOOT/SHOE EST	174	300		.	1	400	100	800	700
0038	C	JOHNSON ROBERT	BASKET FACTORY	256	600		.	7	800	100	1200	1100
0038	C	KILNER CHARLES	PHOTOGRAPHIC GAL	893	250		.	1	400	100	600	500
0038	C	MCCAULY WILLIAM	SAW MILL	251/251-S	15000	STEAM	25	11	4500	5200	11000	5800
0038	C	MCKAY W	PRINTING OFFICE	289	3000		.	4	900	300	2400	2100
0038	C	MOORE JOHN & C	TINSMITH	304-T	2500		.	2	700	3000	5000	2000
0038	C	ORR WILLIAM A	BOOT/SHOE EST	174	2500		.	5	1500	2000	4000	2000
0038	C	PATTERSON THOMAS	MILLINERY	249-M/244	600		.	6	936	1500	2600	1100
0038	C	REYNOLDS THOMAS	BOOT/SHOE EST	174	2000		.	5	1560	1500	4500	3000
0038	C	SMITH & THOMPSON	TANNERY	172	17000	STEAM	10	18	6000	14500	20559	6059
0038	C	SMITH & THOMPSON	FOUNDRY/MACHINE	329-P	30000	STEAM	20	40	15000	18000	40000	22000
0038	C	TAIT ROBERT	CABINETWARE MF	261/258	600		.	2	1200	500	2500	2000
0038	C	TAYLOR JAMES	SADDLER/HARNESSM	179-S	500		.	2	620	1400	2500	1100
0038	C	TILLER GEORGE	CABINET MANUFACT	261	2000		.	2	950	2000	4500	2500
0038	C	TROTT J B & C	TINSMITH	304-T	2000		.	2	1040	1500	3500	2000
0038	C	WALSH WILLIAM	BOOT/SHOE MF	174	1500		.	3	1200	1000	2600	1600
0038	C	WARCUP ISAAC	GRIST/FLOUR MILL	105	4000	WATER	40	3	1200	1000	3000	2000
0038	C	WILLIAMS JOHN A	CLOTHING MANUFAC	243	2000		.	7	1090	3000	6500	3500
0038	C	WOOD RICHARD SHAW	PLANING M/BLIND	254	6000	STEAM	16	14	3500	3000	9594	6594
0038	C	YOUNG WILLIAM	CABINET MANUFACT	261	1000		.	3	1800	1000	5000	4000
					105150		117	181	54056	71100	158853	87753

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